Welcome

Welcome to the University of Dayton online Bulletin. The Bulletin consists of undergraduate and graduate issues released annually. The issue that applies to your academic program depends on the year in which you began your studies at the University of Dayton. To determine which issue applies to you, please visit the issues page.

You are currently viewing the August 2004 Undergraduate Issue.

The Bulletin is divided into two main sections, General Information and Academic Information. In the General Information section, you can find a wide array of material dealing with many facets of your academic career. In the Academic Information section, you can locate specifics on various academic areas, and the programs and courses they offer. The Bulletin also has a Search feature to help you quickly locate content from the two main sections.

To navigate between General Information, Academic Information, and the Search feature, click on the tab of your choice at the top of the right-hand menu.

You can print any page of content by clicking the icon that will be located at the top of the page, directly to the right of the page title. The displayed material will be reformatted into a print-friendly version.

To begin exploring the Bulletin's General Information, use the menu to the right. Click on the topic of your choice to view the material. Any subsections related to that topic will appear in the menu.

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The University of Dayton

Founded in 1850

The University of Dayton is a private, coeducational school founded and directed by the Society of Mary (the Marianists), a Roman Catholic teaching order. It is among the nation's largest Catholic institutions of higher learning. Aware of the richness of cultural diversity, representatives of many faiths are numbered among the University faculty and students. For the same reason, the University has consciously drawn its students and faculty not only from the immediate community and the Midwest but from across the country and from numerous foreign countries.

The main campus of more than 200 landscaped acres sits on a hill overlooking the city of Dayton, Ohio. The campus is made up of a well-integrated architectural mix of old and new buildings that are both attractive and well-equipped. The faculty members are excellent scholars who pursue knowledge in its rich variety and fine instructors dedicated to student learning and educational excellence. The University enrolls students from diverse social, ethnic, and economic backgrounds who are capable of and committed to learning, leadership, and service.

A lively, friendly atmosphere; numerous and varied religious, cultural, and social opportunities; an early-semester calendar allowing a number of study-recess options; intercollegiate and intramural athletic programs for both men and women; academic options such as honors programs, independent study, and study abroad; academic, professional, and personal counseling; cooperative work-study plans; a placement service for students and graduates – these exemplify the myriad aspects of the character of the University of Dayton.

1The Society of Mary, founded in France in 1817 by Father William Joseph Chaminade, presently conducts schools throughout the United States and in Africa, Canada, Europe, India, Japan, Korea, and Central and South America. The Society operates Chaminade University in Honolulu and St. Mary’s University in San Antonio.
The University of Dayton is a comprehensive Catholic university, a diverse community committed, in the Marianist tradition, to educating the whole person and to linking learning and scholarship with leadership and service.

The University of Dayton is a comprehensive university committed to offering a broad range of programs in liberal arts, the sciences, and the professions at the undergraduate level, to providing selected programs on the graduate level to meet the needs of the community and region, to sponsoring timely continuing education programs. As comprehensive, the University views learning and scholarship as a shared task of discovering, integrating, applying and communicating knowledge at the intersections of liberal and professional education, across the disciplines, and through combining theory with practice.

As Catholic, the University commits itself to a distinctive vision of learning and scholarship that includes: a common search for truth based on the belief that truth can be more fully known and is ultimately one; a respect for the dignity of each human person created in the image and likeness of God; and an appreciation that God is manifested sacramentally through creation and the ordinary things in life. Ultimately, a Catholic vision of the intellectual life is based upon the acceptance of the revelation of God in Jesus Christ as it has been received and handed on by the Church. This challenge calls for integration of the human and the divine, reason and faith, and promotes true understanding through a person’s head and heart. The University welcomes persons of all faiths and persuasions to participate in open and reflective dialogue concerning truth and the ultimate meaning of life.

Founded in the Marianist tradition, the University is committed to a vision of a distinctive educational community. As Marianist, the University focuses on educating the whole person in and through a community that supports and challenges all who become a part of it. The University forms an educational community thriving on collaboration by people from diverse backgrounds with different skills who come together for common purposes. The University as Marianist challenges all its members to become servant-leaders who connect scholarship and learning with leadership and service.

This university community-comprehensive, Catholic and Marianist-exists not for itself, but to render service. The University creates an environment in which its members, working in a scholarly manner, are free to evaluate the strengths and weaknesses of their own work and the work of others. In partnership, through the Research Institute, Campus Ministry, as well as numerous student organizations, the University works with others to improve the human community.
Brief History

In the summer of 1849, Father Leo Meyer and Brother Charles Schultz, the first Marianist missionaries to America, journeyed from Alsace in France to Cincinnati, Ohio, where they intended to establish a base for the order in this country. They arrived, however, during a cholera epidemic, so Bishop John Purcell of Cincinnati soon sent Father Meyer to Dayton to minister to the sick of Emmanuel Parish. Here he met John Stuart, whose little daughter died of cholera the year before. Mr. Stuart wanted to sell his Dayton property and return with his wife to Europe. On March 19, 1850, the feast of St. Joseph, Father Meyer purchased Dewberry Farm from him and renamed it Nazareth. Mr. Stuart accepted a medal of St. Joseph and a promise of $12,000 at 6% interest in return for 125 acres, including vineyards, orchards, a mansion, and various farm buildings. Meanwhile, more Marianists arrived, and Nazareth became the first permanent foundation of the Society of Mary in the Western Hemisphere.

The University of Dayton had its earliest beginnings on July 1, 1850, when St. Mary's School for Boys, a frame building that not long before had housed farm hands, opened its door to fourteen primary students from Dayton. In September, the classes moved to the mansion, and the first boarding students arrived. Father Meyer served as administrator. Brother Maximin Zehler taught, Brother Schultz cooked, and Brother Andrew Edel worked as farmer-gardener.

Five years later the school burned to the ground, but within a year classes resumed. By 1860, when Brother Zehler became president, enrollment approached one hundred. The Civil War had little direct effect on the school because most of the students were too young to serve. St. Mary's grew as college preparatory courses were started in 1861. Then came a novitiate and a normal school for Marianist candidates. An old history refers to the period of 1860-75 as "the brick-and-mortar years." The Chapel of the Immaculate Conception was completed in 1869. In 1870, visitors marveled at new St. Mary's Hall, the largest building in Dayton, and called it "Zehler's Folly." The new "college department" moved into it in 1871. (St. Mary's Hall is now listed in the National Register of Historic Places.)

In 1882, the institution was incorporated and empowered to confer collegiate degrees under the laws of the State of Ohio. In 1883, another devastating fire visited the campus, but this time some of the buildings were saved. The statue now known as Our Lady of the Pines was erected in gratitude, and the following year St. Joseph's Hall was built, symbolizing the renewed confidence of the Dayton Marianists. In a more famous emergency, the school was spared by water as it had not been by fire. Because of its hillside location, it survived the Great Flood of 1913 untouched and was able to give shelter to 600 refugees.

St. Mary's had reorganized in 1902 into four departments-classical, scientific, academic, and preparatory. In 1905 it added the Commercial Department, which would become the Department of Commerce and Finance in 1921, the Division of Business Organization in 1924, and ultimately the School of Business Administration. Four engineering departments, appearing from 1909 to 1920, were to become the Engineering Division. In 1915, the Marianist training program (novitiate and normal school) was moved to Mount St. John's (now Bergamo Center).

Known at various times as St. Mary's School, St. Mary's Institute, and St. Mary's College, the school assumed its present identity in 1920, when it was incorporated as the University of Dayton. The same year, the elementary division was closed, the Division of Education was organized, and the University started its tradition of evening and Saturday classes to serve adults in the surrounding community. In 1922, the College of Law opened, also with evening classes. Other graduate programs followed, to augment the professional degree programs which distinguished the University from many of Ohio's other independent institutions of higher learning. In 1923, the first summer session
Statement of Purposes

Approved by the Board of Trustees, May 14, 1969.

The University of Dayton, by tradition, by legal charter, and by resolute intent, is a church-related institution of higher learning. As such, it seeks, in an environment of academic freedom, to foster principles and values consonant with Catholicism and with the living traditions of the Society of Mary. Operating in a pluralistic environment, it deliberately chooses the Christian world-view as its distinctive orientation in carrying out what it regards as four essential tasks: teaching, research, serving as a critic of society, and rendering public service.

The University of Dayton has as its primary task to teach—that is, to transmit the heritage of the past, to direct attention to the achievements of the present, and to alert students to the changes and challenges of the future. It regards teaching, however, as more than the mere imparting of knowledge; it attempts to develop in its students the ability to integrate knowledge gained from a variety of disciplines into a meaningful and viable synthesis.

The University of Dayton holds that there is harmony and unity between rationally discovered and divinely revealed truths. Accordingly, it commits its entire academic community to the pursuit of such truths. It provides a milieu favorable to scholarly research in all academic disciplines, while giving priority to studies which deal with problems of a fundamentally human and Christian concern. It upholds the principle of responsible freedom of inquiry, offers appropriate assistance to its scholars, and endeavors to provide the proper media for the dissemination of their discoveries.

The University of Dayton exercises its role as critic of society by creating an environment in which faculty and students are free to evaluate, in a scholarly manner, the strengths and weaknesses found in human institutions. While, as an organization, it remains politically neutral, objective, and dispassionate, it encourages its members to judge for themselves how these institutions are performing their proper tasks; to expose deficiencies in their structure and operation; to propose and actively promote improvements when these are deemed necessary.

The University of Dayton recognizes its responsibility to support, with means appropriate to its purposes, the legitimate goals and aspirations of the civic community and to cooperate with other agencies in striving to attain them. It assists in promoting the intellectual and cultural enrichment of the community; it makes available not only the resources of knowledge that it possesses, but also the skills and techniques used in the accumulation and dissemination of knowledge; and, above all, it strives to inspire persons with a sense of community and to encourage men and women of vision who can and will participate effectively in the quest for a more perfect human society.
Basic Academic Structure of the University

The University of Dayton now includes the College of Arts and Sciences and four professional schools, each with a dean: the School of Business Administration, the School of Education and Allied Professions, the School of Engineering (including Engineering Technology), and the School of Law. The deans, through their departmental chairpersons, administer the undergraduate and graduate programs. The vice president for graduate studies and research and dean of graduate studies has the overall responsibility for all graduate programs. At the head of the academic structure of the University is the provost.

The University of Dayton awards the following baccalaureate, professional, and graduate degrees:

- Bachelor of Arts
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Electrical Engineering
- Bachelor of Fine Arts
- Bachelor of General Studies
- Bachelor of Mechanical Engineering
- Bachelor of Music
- Bachelor of Science
- Bachelor of Science in Business Administration
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Education and Allied Professions
- Bachelor of Science in Engineering Technology
- Master of Arts
- Master of Business Administration
- Master of Computer Science
- Master of Financial Mathematics
- Master of Public Administration
- Master of Science
- Master of Science in Aerospace Engineering
- Master of Science in Applied Mathematics
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Education and Allied Professions
- Master of Science in Electrical Engineering
- Master of Science in Electro-Optics
- Master of Science in Engineering
- Master of Science in Engineering Management
- Master of Science in Engineering Mechanics
- Master of Science in Management Science
- Master of Science in Materials Engineering
- Master of Science in Mechanical Engineering
- Educational Specialist
- Juris Doctor
- Doctor of Engineering
- Doctor of Philosophy in Biology
- Doctor of Philosophy in Educational Leadership
- Doctor of Philosophy in Electro-Optics
- Doctor of Philosophy in Engineering
- Doctor of Philosophy in Theology

College of Arts and Sciences

The College of Arts and Sciences offers five undergraduate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Music, Bachelor of Fine Arts, and Bachelor of General Studies. Academic majors offered by the College include American Studies, Biology, Environmental Biology, Chemistry, Biochemistry, Communication Studies, Communication Management, Journalism, Public
The College of Arts and Sciences offers Masters degree programs in biology, chemistry, communication, computer science, English, applied mathematics, pastoral ministry, psychology, public administration, and theological studies. The College works in collaboration with the School of Education and Allied Professions to offer the Master of Arts in English with a teaching track, the Master of Science in Education and Allied Professions with music education concentration, and the Master of Science in Education and Allied Professions with art education concentration.

The College of Arts and Sciences offers graduate programs leading to doctoral degrees in biology and in theology and participates through the Department of Physics with the School of Engineering in an interdisciplinary program leading to the doctoral degree in electro-optics.

School of Business Administration

The School of Business Administration offers a Bachelor of Science degree with majors in accounting, business economics, entrepreneurship, finance, international business, leadership, management, information systems, marketing, and operations management. On the graduate level, the School awards the Master of Business Administration degree.

School of Education and Allied Professions

The School of Education and Allied Professions (SOEAP) prepares professionals for the early, middle and secondary levels, and for specialized fields such as art, music, foreign language, intervention specialist, physical education, dietetics/nutrition, exercise science, pre-physical therapy, and sport management. It conducts professional development and post-graduate programs and offers graduate programs leading to the degrees of Master of Science in Education and Allied Professions, along with Educational Specialist and Doctor of Philosophy in Educational Leadership. These programs are designed to prepare school administrators, school counselors, school psychologists, and teachers for both public and private schools nationwide.

School of Engineering

The School of Engineering includes the departments of Chemical and Materials Engineering, Civil and Environmental Engineering and Engineering Mechanics, Electrical and Computer Engineering, Mechanical and Aerospace Engineering, and Engineering Technology. The School offers four-year curricula leading to the degrees of Bachelor of Chemical Engineering, Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, Bachelor of Science in Computer Engineering, and Bachelor of Science in Engineering Technology with specialities in Computer Engineering Technology, Electronic Engineering Technology, Industrial Engineering Technology, Manufacturing Engineering Technology, and Mechanical Engineering Technology. The School offers graduate programs leading to the degrees of Master of Science in Engineering, Master of Science in Aerospace Engineering, Master of Science in Chemical Engineering, Master of Science in Civil Engineering, Master of Science in Electrical Engineering, Master of Science in Electro-Optics, Master of Science in Engineering Management, Master of Science in Engineering Mechanics, Master of Science in Management Science, Master of Science in Materials Engineering, Master of Science in Mechanical Engineering, Doctor of Engineering, Doctor of Philosophy in Engineering, and Doctor of Philosophy in Electro-Optics.

School of Law

The University of Dayton School of Law offers the Juris Doctor and two joint degree programs: Juris-Doctor-Master of Business Administration and Juris Doctor-Master of Science in Education and Allied Professions (Educational Administration).

The Graduate School

Programs leading to advanced degrees are offered through the College of Arts and Sciences and the Schools of Business, Education, Engineering, and Law.
Doctoral programs are offered in biology, theology; in aerospace engineering, electrical engineering, electro-optics, materials engineering, and mechanical engineering; and in educational leadership. Both Ph.D. and D.E. degrees are offered in engineering.

The College of Arts and Sciences offers masters programs in applied mathematics, biology, chemistry, communication, computer science, English, financial mathematics, mathematics, pastoral ministry, psychology, public administration, and theological studies. Individual interdisciplinary studies are also available. Concentrations in art education and music education are offered through and in collaboration with the School of Education and Allied Professions.

The School of Business Administration offers a Master of Business Administration with concentrations in accounting, finance, international business, management information systems, marketing, operations management, and technology-enhanced business. A combined program offering a B.S.B.A. with an accounting major and an M.B.A. is offered. The J.D./M.B.A. joint degree is also offered to students meeting the admission requirements of both the Law School and the School of Business Administration.

The School of Education and Allied Professions offers a Master of Science in Education degree, with programs in Teacher Education, Educational Leadership, Counselor Education and Health and Sports Science. The School also offers an Educational Specialist degree in Educational Leadership and School Psychology, a Doctoral degree in Educational Leadership, and a graduate licensure program.


The School of Law offers a Juris Doctor degree.
Libraries

The University of Dayton Roesch Library houses books, journals, videos, government documents, and microforms for both graduate and undergraduate students. This facility also includes the Marian Library, other rare and special collections, and the University Archives. Roesch Library is open 108 hours a week throughout much of the academic year. Reference assistance is provided in a variety of forms including in-house, email, live chat, telephone, and private consultations. The Roesch Library subscribes to over 100 online databases on a variety of subjects and has current subscriptions to more than 6,500 journals in print and electronic formats. Comfortable study areas are convenient to the open stacks, and computers, photocopiers, seminar rooms, as well as faculty and graduate carrels are available. The Libraries are members of OhioLINK, a cooperative venture of university libraries and the Ohio Board of Regents. OhioLINK partners have created a common information network providing rapid access to and delivery of over 9,000,000 volumes available at college and university libraries across the state. All of the libraries affiliated with OhioLINK provide on-site borrowing privileges to students and faculty associated with the University. Roesch Library is available online at http://library.udayton.edu.

The Marian Library, on the seventh floor of the Roesch Library, houses the world’s largest collection of works on the Virgin Mary. Its resources in over fifty languages include 100,000 books and pamphlets (some 6,000 printed before 1800), 125 periodicals, a clipping file of over 52,000 items, and a growing number of microforms. These works are supplemented by collections of slides, medals, postcards, postage stamps, and illustrations of various kinds. In addition to these materials dealing with Mariology, the library has significant holdings in national and regional bibliographies, reference works on the Bible, ecclesiastical and dogmatic history, church art (especially of the Eastern Churches and Medieval Europe), and the history of the book.

The University of Dayton School of Law Library is located in Joseph E. Keller Hall. Its collection contains over 150,000 volumes and 63,000 physical units of microforms. The open-stack arrangement of the Law Library permits easy access to all materials.

The Curriculum Materials Center (CMC) which houses the School of Education and Allied Professions educational materials collection, is on the first floor of Chaminade Hall, Room 103. It offers a wide selection of juvenile and young adult fiction and nonfiction, education journals for use in P-12 schools, textbooks, audiocassettes, records, transparencies, charts, material kits, teaching aids, dissertations and videocassettes. The CMC also has 2 PC workstations, a copier, a binding machine and an Ellison Press for cutting letters and shapes. The CMC is available online at http://www.udayton.edu/centers/cmc/index.html.
Accreditation

The University of Dayton is officially accredited by the following agencies:

- The Accreditation Board for Engineering and Technology, Inc., for the programs in chemical, civil, electrical, and mechanical engineering and in electronic, industrial, and mechanical engineering technology
- The Association to Advance Collegiate Schools of Business (AACSB) for the baccalaureate, accounting and Master of Business Administration programs of the School of Business administration
- The American Bar Association for its School of Law
- The American Dietetic Association for the didactic program in dietetics
- The Association of American Law Schools for its School of Law
- The Human Factors Society for the Master of Arts program in experimental-human factors psychology
- The National Association of Schools of Music
- The National Council for Accreditation of Teacher Education
- The North Central Association of Colleges and Schools
- The State of Ohio Department of Education
- The Technology Accreditation Commission of Accreditation Board for Engineering and Technology for the programs in electronic, industrial, manufacturing and mechanical engineering technology

The University has the approval of the following:

- The American Chemical Society
- The American Dietetic Association
- The League of Ohio Law Schools for its School of Law
- The National Association for Music Therapy

1North Central Association, 30 N. LaSalle Street, Suite 2400, Chicago, IL 60602
(800) 621-7440
http://ncahigherlearningcommission.org

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http://bulletin.udayton.edu/content.ud?v=6&p=1120&c=1126 7/10/2012
Institutional Membership

The University holds institutional membership in the following:

- The Academy of Criminal Justice Sciences
- The American Assembly of Collegiate Schools of Business
- The American Association for Higher Education
- The American Association of Colleges for Teacher Education
- The American Association of Collegiate Registrars and Admissions Officers
- The American Association of University Administrators
- The American Association of University Women
- The American Council on Education
- The American Dietetics Association
- The American Home Economics Association
- The American Library Association
- The American Society of Criminology
- The American Society for Engineering Education
- The Associated New American Colleges
- The Association of American Colleges and Universities
- The Association of American Law Schools
- The Association of Catholic Colleges and Universities
- The Association of Governing Boards of Universities and Colleges
- The Association of Independent Colleges and Universities of Ohio
- The Catholic College Coordinating Council
- The College Entrance Examination Board
- The College and University Personnel Association
- The Comparative and International Education Society
- The Cooperative Education Association
- The Council for Advancement and Support of Education (CASE)
- The Council for the Advancement of Experiential Learning
- The Council of Graduate Schools
- The Council on Social Work Education
- The Dayton Area Chamber of Commerce
- The Dayton Art Institute (sponsoring)
- The Institute of International Education
- The League of Ohio Law Schools
- The Midwestern Criminal Justice Association
- The National Association of College and University Food Services
- The National Association of College Auxiliary Services
- The National Association for Foreign Student Affairs
- The National Association of Independent Colleges and Universities
- The National Association of Student Personnel Administrators
- The National Catholic Education Association
- The National Council of Catholic Bishops
- The National Scholarship Service and Fund for Negro Students
- The National University Teleconference Network
- The North Central Association of Colleges and Schools
- The Ohio Academy of Science
- The Ohio Association of Colleges for Teacher Education
- The Ohio Association of Private Colleges for Teacher Education
- The Ohio Campus Compact
- The Ohio College Association
- The Ohio Continuing Higher Education Association
- The PBS Adult Learning Satellite Service
- The Society for the Advancement of Education
- The Southwestern Ohio Council for Higher Education

1North Central Association, 30 N. LaSalle Street, Suite 2400, Chicago, IL 60602
Southwestern Ohio Council for Higher Education (SOCHE)

Students at the University of Dayton may register for courses for credit at Southwestern Ohio Council for Higher Education institutions (see below for a complete list) at the University of Dayton's rate per credit hour. Students will pay any applicable lab or related fees at the host institution. This policy applies only if the course is not available at the University of Dayton, space in the course is available and pertains only to regular sessions of the academic year (summer sessions and self-supporting or sustaining programs are excluded.) The student also is required to have advisor's permission, must satisfy all course prerequisites, and must meet the host institution's admissions requirements. For more information contact the Office of the Registrar, pmartin@udayton.edu.

The consortium of 20 colleges and universities was established to promote inter-institutional cooperation and community service. SOCHE holds regular conferences for faculty and staff, serves as a clearinghouse for the exchange of information, and promotes projects of educational research and experimentation. Many cooperation programs exist in teaching, research, publishing, college finance and administration, and other areas.

Consortium member schools include: Air Force Institute of Technology, Antioch University, Capital University-Dayton Center, Cedarville University, Central State University, Clark State Community College, Edison State Community College, Kettering College of Medical Arts, Miami-Jacobs College, Sinclair Community College, Southern State Community College, United Theological Seminary, Union Institute & University, University of Dayton, University of Phoenix/Dayton-Troy Center, Urbana University, Wilberforce University, Wilmington College, Wittenberg University, and Wright State University.
Related University Services

Besides the regular day sessions, the University conducts special as well as regular evening and summer sessions and offers short-term workshops, institutes, and conferences. All credited courses, whenever offered or in whatever form, conform to the same standards and are governed by the same policies and regulations prevailing during the regular day sessions.

Special Programs serves the part-time students of the Dayton community to make the University and its course offerings, both credit and noncredit, more easily available to them. Similarly, the Office of International Student Services serves students from other countries who are enrolled at the University.

To foster interdisciplinary efforts, the Office of the Provost can administer courses designated UDI (University of Dayton Interdisciplinary) to accommodate interschool offerings and experimental programs. (UDI courses are listed and described in Section X, Interdisciplinary, Experimental and Special Areas, as are other special offerings.)

The Research Institute, an integral component of the University of Dayton, provides important resources and reinforcement for all levels of academic endeavor, as does UDit. (Visit Section X.) A unit of the Army Reserve Officers Training Corps, also based on the campus, offers its academic program through the Department of Military Science. (Visit the Department of Military Science in Academic Information.)
Academic Calendar Year

The University of Dayton operates under an early semester, split third-term calendar. The academic year begins with the fifteen-week fall term, which ends before Christmas. The winter term, also fifteen weeks, begins in January and ends early in May. The third, or spring-summer term, is split into two complete sessions of six weeks each.

The advantages of such a calendar are many. Students may enroll for the traditional fall and winter semesters and have a four-month summer vacation; or they may add half terms or full terms to enrich their programs or speed the completion of their degree requirements. The University issues diplomas at the end of each term and holds ceremonies in May and December. Students who must earn their own money can have extra time for employment in spring and summer; or they may enroll for the third term and work during the fall or the winter term, when the employment market is not crowded with other college students.
Academic Calendar 2004-2005

Subject to change

First Term

Sun, Aug 1
Thu, Aug 19
Sat-Tue, Aug 21-24
Sun, Aug 22
Mon, Aug 23
Tue, Aug 24
Tue, Aug 31
Wed, Aug 25
Tue, Sep 6
Thu, Sep 9
Fri, Sep 10
Wed, Sep 15
Fri, Sep 17
Fri, Sep 24
Tue, Sep 28
Tue, Oct 19
Fri-Sun, Oct 22-24
Fri, Oct 29
Wed, Nov 10
Fri, Nov 12
Tue, Nov 23
Sat, Nov 27
Mon, Nov 29
Fri, Dec 3
Tue, Dec 7
Wed, Dec 8
Thu, Dec 9
Fri, Dec 10
Mon-Fri, Dec 13-17
Sat, Dec 18
Mon, Dec 20

Degrees conferred--no ceremony
New Faculty Orientation
New Student Orientation
Upperclass students move into UD housing
New Graduate Students Open House, 5:30 p.m. to 8:00 p.m. KU Torch Lounge
Last day to complete registration
New Student Convocation at 9:00 a.m.
Last day to complete registration, change of grading options and schedules
Labor Day--no classes
Last day to change Second Session and full Third Term grades
General Faculty Meeting at 3:00 p.m. (Boll Theater)
Last day to withdraw without record
Last day to submit Undergraduate candidacy for May 2005 commencement
Academic Senate Meeting at 3:00 p.m. (KU West Ballroom)
Last day to submit Masters and PhD candidacy for December 2004 graduation
First-year students' midterm progress grades due in Registrar's Office by 4:00 p.m.
Parents Weekend
Academic Senate Meeting at 3:00 p.m. (KU West Ballroom)
Last day to withdraw with record of W--no registration
Faculty Meeting - Budget Planning at 3:00 p.m. (KU East Ballroom)
Thanksgiving recess begins after last class
Saturday classes meet
Classes resume at 8:00 a.m.
Academic Senate Meeting at 3:00 p.m. (KU 222)
Last day of classes
Feast of the Immaculate Conception--Christmas on Campus--no classes
Study Day
Study Day
Examinations--First Term ends after final examinations
Diploma Exercises at 10:00 a.m.
Grades due by 9:00 a.m. Deficiency reports due in Deans' Offices
**SECOND TERM**

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Tue, Jan 4</td>
<td>Last day to complete registration</td>
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<tr>
<td>Wed, Jan 5</td>
<td>Classes begin at 8:00 a.m.</td>
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<tr>
<td>Fri, Jan 7</td>
<td>Academic Senate Meeting at 3:00 p.m. (KU West Ballroom)</td>
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<tr>
<td>Tue, Jan 11</td>
<td>Last day for late registration, change of grading options and schedules</td>
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<tr>
<td>Mon, Jan 17</td>
<td>Martin Luther King, Jr. Day--no day classes. Monday-only classes meeting 4:30 p.m. and after will be held</td>
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<tr>
<td>Mon, Jan 24</td>
<td>Last day to change First Term grades</td>
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<tr>
<td>Wed, Jan 26</td>
<td>Last day to withdraw without record</td>
</tr>
<tr>
<td>Fri, January 28</td>
<td>Faculty Meeting - Budget Decisions at 3:00 p.m. (KU East Ballroom)</td>
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<tr>
<td>Fri, Feb 4</td>
<td>Last day to submit Masters and PhD candidacy for May 2005 commencement</td>
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<tr>
<td>Fri, Feb 11</td>
<td>Academic Senate Meeting at 3:00 p.m. (KU West Ballroom)</td>
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<tr>
<td>Thu-Fri, Feb 24-25</td>
<td>Mid-Term Break</td>
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<tr>
<td>Sat, Feb 26</td>
<td>Saturday classes meet</td>
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<tr>
<td>Tue, Mar 1</td>
<td>First-year students' midterm progress grades due in Registrar's Office by 4:00 p.m.</td>
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<tr>
<td>Fri, Mar 11</td>
<td>Academic Senate Meeting at 3:00 p.m. (KU 331)</td>
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<tr>
<td>Tue, Mar 15</td>
<td>Graduation Fair (10 a.m. to 5 p.m.)</td>
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<tr>
<td>Wed, Mar 16</td>
<td>Graduation Fair (10 a.m. to 6 p.m.)</td>
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<tr>
<td>Sat, Mar 19</td>
<td>Easter Recess begins after last class--Saturday classes meet</td>
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<tr>
<td>Sat, Mar 26</td>
<td>Saturday classes meet</td>
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<tr>
<td>Tue, Mar 29</td>
<td>Classes resume at 8:00 a.m.</td>
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<tr>
<td>Wed, Mar 30</td>
<td>Last day to withdraw with record of W--no registration</td>
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<tr>
<td>Wed, Apr 6</td>
<td>Bro. Joseph W. Stander Symposium and Honors Convocation</td>
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<tr>
<td>Fri, Apr 8</td>
<td>Final Faculty Meeting at 3:00 p.m. (TBA)</td>
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<tr>
<td>Fri, Apr 15</td>
<td>Last day to submit Undergraduate candidacy for August and December 2005 graduations</td>
</tr>
<tr>
<td>Fri, Apr 15</td>
<td>Academic Senate Meeting at 3:00 p.m. (KU West Ballroom)</td>
</tr>
<tr>
<td>Wed, Apr 27</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Thu, Apr 28</td>
<td>Study Day</td>
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<tr>
<td>Fri, Apr 29</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, May 2-6</td>
<td>Examinations--Second Term ends after final examinations</td>
</tr>
<tr>
<td>Sun, May 8</td>
<td>Commencement Exercises at 10:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 10</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, May 13</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Mon, Jun 13</td>
<td>Last day to change Second Term grades</td>
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</tbody>
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**THIRD TERM--FIRST SESSION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Fri, May 13</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Sat, May 14</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, May 16</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 17</td>
<td>Last day for late Third Term-First Session registration, change of grading options and schedules</td>
</tr>
</tbody>
</table>
Thu, May 19  Last day for late Third Term-Full Session registration, change of grading options and schedules
Wed, May 25  Last day to withdraw without record from First Session classes
Mon, May 30  Memorial Day—no classes
Mon, Jun 13  Last day to change Second Term grades
Mon, Jun 13  Last day to withdraw with record of W from First Session classes
Thu, Jun 23  Last day of classes
Fri-Sat, Jun 24-25  Examinations—full Third Term classes do not meet
Sat, Jun 25  First Session ends after final examinations
Tue, Jun 28  Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices
Fri, Jul 1  Grades mailed
Fri, Jul 1  Last day to submit Masters and PhD candidacy for August 2005 graduation
Thu, Jul 7  Last day to withdraw without record from full Third Term classes
Mon, Aug 1  Last day to change First Session grades

THIRD TERM—SECOND SESSION

Fri, Jun 24  Last day to complete registration
Sat, Jun 25  Saturday classes begin
Mon, Jun 27  Classes begin at 8:00 a.m.
Tue, Jun 28  Last day for late Third-Term-Second Session registration, change of grading options and schedules
Fri, Jul 1  Last day to submit Masters and PhD candidacy for August 2005 graduation
Mon, Jul 4  Independence Day—no classes
Thu, Jul 7  Last day to withdraw without record from Second Session and full Third Term classes
Mon, Jul 25  Last day to withdraw with record of W from Second Session and full Third Term classes
Mon, Aug 1  Last day to change First Session grades
Thu, Aug 4  Last day of classes
Fri-Sat, Aug 5-6  Examinations—Second Session ends after final examinations
Tue, Aug 9  Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices
Fri, Aug 12  Grades mailed
Sun Aug 14  Degrees conferred—no ceremony
Mon, Sep 12  Last day to change Second Session and full Third Term grades

Note: The dates of all Academic Senate and General Faculty meetings will be posted to the calendar when they are determined.

August 16, 2004
Academic Calendar 2005-2006

Subject to change

First Term

Sun, Aug 14  Degrees conferred--no ceremony
TBD  New Faculty Orientation
Thu-Sun, Aug 18-21  New Student Orientation
TBD  Upperclass students move into UD Housing
Sun, Aug 21  Last day to complete registration (1:00 p.m.-3 p.m.)
TBD  New Student Convocation
Mon, Aug 22  Classes begin at 8:00 a.m.
Fri, Aug 26  Last day for late registration, change of grading options and schedules
Mon, Sep 5  Labor Day--no classes
Mon, Sep 12  Last day to change Second Session and full Third Term grades
Mon, Sep 12  Last day to withdraw without record
Fri, Sep 16  Last day to submit Undergraduate candidacy for May 2006 commencement
Fri, Sep 30  Last day to submit Masters and PhD candidacy for December 2005 graduation
Mon-Tue, Oct 10-11  Mid-Term Break--no classes
Wed, Oct 12  Classes resume at 8:00 a.m.
Mon, Oct 24  First-year students' midterm progress grades due by 4:00 p.m.
TBD  Parents Weekend
Mon, Nov 7  Last day to withdraw with record of W--no registration
Tue, Nov 22  Thanksgiving recess begins after last class
Sat, Nov 26  Saturday classes meet
Mon, Nov 28  Classes resume at 8:00 a.m.
Wed, Dec 7  Last day of classes
Thu, Dec 8  Feast of the Immaculate Conception--Christmas on Campus--no classes
Fri, Dec 9  Study Day
Mon-Fri, Dec 12-16  Examinations--First Term ends after final examinations
Sat, Dec 17  Diploma Exercises at 10:00 a.m.
Tue, Dec 20  Grades due by 9:00 a.m. Deficiency reports due in Deans' Offices
Fri, Dec 23  Grades mailed
Mon, Jan 23  Last day to change First Term grades

SECOND TERM

Tue, Jan 3  Last day to complete registration
Wed, Jan 4  Classes begin at 8:00 a.m.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Tue, Jan 10</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Jan 16</td>
<td>Martin Luther King, Jr. Day—no day classes; Monday-only classes that meet 4:30 p.m. and after will be held</td>
</tr>
<tr>
<td>Mon, Jan 23</td>
<td>Last day to change First Term grades</td>
</tr>
<tr>
<td>Wed, Jan 25</td>
<td>Last day to withdraw without record</td>
</tr>
<tr>
<td>Fri, Feb 3</td>
<td>Last day to submit Masters and PhD candidacy for May 2006 Commencement</td>
</tr>
<tr>
<td>Wed, Mar 8</td>
<td>First-year students' midterm progress grades due by 4:00 p.m.</td>
</tr>
<tr>
<td>Fri, Mar 10</td>
<td>Mid-Term break begins after last class</td>
</tr>
<tr>
<td>Sat, Mar 11</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Sat, Mar 18</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Mon, Mar 20</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Wed, Mar 22</td>
<td>Last day to withdraw with record of W—no registration</td>
</tr>
<tr>
<td>TBD</td>
<td>Bro. Joseph W. Stander Symposium and Honors Convocation</td>
</tr>
<tr>
<td>Fri, Apr 7</td>
<td>Last day to submit Undergraduate candidacy for August and December 2006 graduations</td>
</tr>
<tr>
<td>Wed, Apr 12</td>
<td>Easter Recess begins after last class</td>
</tr>
<tr>
<td>Sat, Apr 15</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Tue, Apr 18</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Wed, Apr 26</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Thu, Apr 27</td>
<td>Study Day</td>
</tr>
<tr>
<td>Fri, Apr 28</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, May 1-5</td>
<td>Examinations—Second Term ends after final examinations</td>
</tr>
<tr>
<td>Sun, May 7</td>
<td>Commencement Exercises at 10:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 9</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, May 12</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Mon, Jun 12</td>
<td>Last day to change Second Term grades</td>
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**THIRD TERM—FIRST SESSION**

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<tr>
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<tbody>
<tr>
<td>Fri, May 12</td>
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<tr>
<td>Tue, May 16</td>
<td>Last day for late Third Term-First Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Thu, May 18</td>
<td>Last day for late full Third Term registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Wed, May 24</td>
<td>Last day to withdraw without record from First Session classes</td>
</tr>
<tr>
<td>Mon, May 29</td>
<td>Memorial Day—no classes</td>
</tr>
<tr>
<td>Mon, Jun 12</td>
<td>Last day to change Second Term grades</td>
</tr>
<tr>
<td>Mon, Jun 12</td>
<td>Last day to withdraw with record of W from First Session classes</td>
</tr>
<tr>
<td>Fri-Sat, Jun 23-24</td>
<td>Examinations—full Third Term classes do not meet First Session ends after final examinations</td>
</tr>
<tr>
<td>Tue, Jun 27</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, Jun 30</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Thu, Jul 6</td>
<td>Last day to withdraw without record from full Third Term classes</td>
</tr>
<tr>
<td>Fri, Jul 7</td>
<td>Last day to submit Masters and PhD candidacy for August 2006 graduation</td>
</tr>
<tr>
<td>Mon, Jul 31</td>
<td>Last day to change First Session grades</td>
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### THIRD TERM—SECOND SESSION

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Fri, Jun 23</td>
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</tr>
<tr>
<td>Sat, Jun 24</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, Jun 26</td>
<td>Second Session classes begin</td>
</tr>
<tr>
<td>Tue, Jun 27</td>
<td>Last day for late Third Term-Second Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Tue, Jul 4</td>
<td>Independence Day—no classes</td>
</tr>
<tr>
<td>Thu, Jul 6</td>
<td>Last day to withdraw without record from Second Session and full Third Term classes</td>
</tr>
<tr>
<td>Fri, Jul 7</td>
<td>Last day to submit Masters and PhD candidacy for August 2006 graduation</td>
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<td>Mon, Jul 24</td>
<td>Last day to withdraw with record of W from Second Session and full Third Term classes</td>
</tr>
<tr>
<td>Mon, Jul 31</td>
<td>Last day to change First Session grades</td>
</tr>
<tr>
<td>Fri-Sat, Aug 4-5</td>
<td>Examinations—Second Session and full Third Term classes after final examinations</td>
</tr>
<tr>
<td>Tue, Aug 8</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, Aug 11</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Mon, Aug 14</td>
<td>Degrees conferred—no ceremony</td>
</tr>
<tr>
<td>Mon, Sep 11</td>
<td>Last day to change Second Session and full Third Term grades</td>
</tr>
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**Note:** The dates of all Academic Senate and General Faculty meetings will be posted to the calendar when they are determined.

September 17, 2004
Student Development

Please select a subsection using the menu to the right.
Office of Residence Education

One of the most challenging and growth-oriented experiences available to students is residential living. The University strives to provide a cocurricular environment that both supports and challenges students to reach their full potential. Understanding, mutual respect, and openness to diversity fosters the development of a positive community.

Towards this goal, professional, graduate, and undergraduate staffs in the Office of Residence Education are creating living and learning environments within University residence halls, suites, apartments, and houses. A student elected governance board or council represents residential student opinions and assists the residence education staff in providing programmatic initiatives for each on campus living area. Student housing services are provided to residents through the main desk operations by Residential Services staff and for houses through the Residential Properties office. In addition, meditation, prayer, and the celebration of Mass are provided in the residence halls by Campus Ministry staff that reside in the various residential living areas.

All first-year and sophomore students are required to live in the University residential community unless they are married, are twenty-one years of age or over, or are local residents living with their legal guardian. Junior and senior students have the opportunity to arrange their own housing in University apartments and houses or to choose non-university housing.

Upon official acceptance to the University of Dayton, the Office of Admission sends all new students applications, contracts, and instructions for securing residential living accommodations. However, any questions regarding obtaining housing should be directed to the Office of Residential Services. Questions regarding residential living issues should be directed to the Office of Residence Education.
Dining Services

The University of Dayton Dining Services operates three full-service student dining facilities located in Kennedy Union, Marycrest Complex and the V. W. Kettering Residence Hall. Kennedy Union and Marycrest offer a la carte dining as well as carry-out. Kettering Hall offers an all-you-can-eat concept and a 'Grab & Go' option. The Emporium, a mini grocery store with a full service deli, is located in the Marianist Residence Hall. Dining Services also operates a pretzel/ice cream/gourmet coffee shop, The Gallery, located in Kennedy Union. All students living in Marycrest, Stuart, Founders, Marianist, and Virginia Kettering Residence Halls are required to purchase a meal plan. Meal plan options are as follows.

- Any 12 Meal Plan - Provides any 12 meals, breakfast, lunch or dinner, over seven days, starting with dinner the night before the first day of classes.
- Any 15 Meal Plan - Provides any 15 meals, breakfast, lunch or dinner over seven days, starting with dinner the night before the first day of classes.
- All 21 Meal Plan - Provides breakfast, lunch and dinner over seven days, starting with dinner the night before the first day of classes. Note: Only one meal per meal period is allowed. For example, two lunches on the same day are not permitted with meal plan options.
- The Flex Pan - Provides complete flexibility, functioning as a debit account.
Office of Student Involvement and Leadership

The Office of Student Involvement and Leadership provides support, direction, and programming opportunities to students and officially recognized student organizations in an effort to enrich and enhance academic life and foster a spirit of community. In addition, the office is responsible for registering all "open" student organization-sponsored events, granting recognition to all student organizations, approving funding and space allocation, providing assistance for organization advisors, publicity approval, programming the Flyer TV information channel, coordinating campus-wide events, and planning leadership workshops and retreats.

The office works directly with the FLYER NEWS, FLYER RADIO, DAYTONIAN, ORPHEUS, Campus Activities Board, Distinguished Speakers Series, First-Year Cultural Experience Programming, Christmas on Campus, the Commuter Student Organization, fraternities/sororities, and all professional/honorary/academic and special interest organizations.
John F. Kennedy Memorial Union

The John F. Kennedy Memorial Union, centrally located on the campus, offers comfortable surroundings and a variety of services for the University community. Lounges provide free space for discussion, studying, and socializing. The Union operates a newly renovated games room with bowling lanes, pool tables, lounge space, a cafe, and video games. The ground-floor food court includes a full-service deli, pizza, southwest cuisine, daily specials, grill favorites, and desserts. Automatic teller machines, display cases, and vending machines are housed in the Union, as are student offices for Student Government Association, Flyer News, Daytonian, Flyer Radio, Flyer TV, CAB, and a lounge for commuter students. Other offices in the Union are those of the Information Center, Box Office, Gift Shop, Student Involvement and Leadership, KU Dining Services, Catering Services, and the travel agency. Meeting rooms, a ballroom, Boll Theatre, and University vans are available for use and can be reserved by contacting 229-3333 (Kennedy Union Room 241). A variety of cultural, educational, social, and recreational activities are presented in the Union regularly. Among the continuing programs are theatrical productions, dance ensembles and recitals and concerts by students and faculty members.
Student Health Center

During the academic year, the Student Health Center, in Gosiger Hall, is open from 8:00 a.m. to 8:00 p.m. weekdays, except University holidays. Summer hours are 8:00 a.m. to 4:00 p.m. The Health Center provides a broad range of medical services to students. One or more physicians are in attendance during daytime hours.
The main purpose of the Counseling Center is to assist students in self-development, including personal adjustment, career planning, and social skills building. All students in need of objective insights or merely "a listening ear" are encouraged to make use of the Center's services. No student's concern is too minor to explore. This is usually accomplished through one-to-one and group counseling, although there are opportunities for workshops on certain topics, consultation, and outreach programming for student, faculty, and staff groups. The Center also provides career and personality testing services.

Because counseling often involves sensitive personal matters, discussions between counselors and students are strictly confidential. An exception occurs when students' problems become life threatening. The University and the student may enter into a contract to establish conditions regarding required treatment/assessment, if there is imminent danger. The student may decide to use the services offered by the University or to receive treatment elsewhere. In the latter case, periodic review by the University is required to confirm that contract conditions are met. For the welfare of the student, problems warranting treatment more intensive than the University can offer may require temporary medical withdrawal from the University. The student may be readmitted to the University upon acceptable completion of contract conditions. In life threatening circumstances, the University assumes the position that the parents or guardians of the student generally should be notified, and it will initiate such notification if the student has not done so within an appropriate time, refuses to do so, or is unable to do so. Other exceptions to confidentiality include a) receiving a court order, and b) when evidence suggests abuse or endangerment to a person under the age of 18 or over 60.

A one-time counseling fee charged to all matriculating undergraduate and Law School students covers the cost of services by the Counseling Center while they are enrolled at the University. Graduate and nonmatriculated undergraduate students pay charges on a fee-for-service basis. The International Association of Counseling Services, Inc, accredits the Center.
Critical Issues Education

The Office of Educational and Special Programs coordinates educational efforts on such topics as alcohol, relationships and sexuality. Critical Issues Education seeks to educate students about some of their most basic life experiences, decisions, and developmental processes. The program combines the issues of alcohol and other drug use, sexuality, relationships, gender issues, communication, self esteem, and peer pressure together in its programs.

Critical Issues Education includes the sexual assault prevention program; a peer education program called START (Students Talking About Real Topics); relationship issues; alcohol and other drug prevention; a major speakers series; visual education projects and representation on the Gay, Lesbian, Bisexual, Transgender Steering Committee. The Office of Educational and Special Programs collaborates with other areas of the University community to program on critical issues topics.
Services for Diverse Student Populations

The University of Dayton is committed to creating an environment that celebrates cultural diversity while focusing on the Marianist philosophy of service, leadership and community. The division of Student Development provides facilities and services to support African-American and Latin-American undergraduate students through the Office of Diverse Student Populations. This support often assumes the form of special programming that reflects the cultural heritage of these populations, as well as supplemental counseling and advising. The staff in the Office of Diverse Student Populations works closely with academic deans, faculty members, and other administrative offices to provide a nurturing community that promotes academic success.
Flyer Express

Flyer Express is a debit account created for University of Dayton Students. Funds deposited in the account may be used at selected locations on and off campus and are accessed by using the Campus One Card. Flyer Express is accepted at all Dining Service locations, UD Bookstore, residence hall laundry, Campus Copy Center, selected vending areas, KU Gift Shop, KU games room, Rudy's Fly-Buy convenience store, Rudy's On The Hill, Campus Computer Store, the Library, KU Box Office, The Blend, The Blend Express, and selected off-campus vendors.
The University of Dayton Bookstore is a service facility operated by the University. Its primary purpose is to provide for the intellectual needs of the University community by making available all required textbooks and by providing a source for essential engineering, art and academic supplies which students need in their areas of study. The University Bookstore also offers a convenient source for students to purchase everyday necessities, gifts, greeting cards, clothing, general books health care items, and many items bearing the University name and/or logo. American Express, Discover, Flyer Express, MasterCard, Visa, and personal checks are accepted with proper I.D.
New Student Orientation

Each year new undergraduate students arrive a few days before the opening of the academic year to participate in the New Student Orientation Program. Its purpose is to familiarize students with the campus and to assist them in their transition to student life by providing a variety of academic and social functions. The New Student Orientation Program is conducted by the Office of Educational and Special Programs in the division of Student Development.
Public Safety

The Department of Public Safety seeks to provide a safe and secure environment for the entire University of Dayton community, which includes the students, faculty, staff, and visitors. The department provides, police, parking, and emergency medical services. The Student Cadet program is also operated by Public Safety, which is located in Benisek Hall.

Police

Police operations include enforcement of laws and campus regulations, criminal investigation, crime prevention, and providing for the physical security of University of Dayton property and interests. The department has primary jurisdiction for law enforcement and criminal investigation on all University of Dayton owned or controlled property, and all public property within the defined campus boundaries according to the mutual aid agreement with the City of Dayton Police Department. Police officers are all graduates of the Basic Police Academy and are sworn law enforcement officers, the same as their municipal counterparts. All full time police officers are required to maintain certification to provide emergency medical services to the campus community.

Emergency assistance is available 24 hours per day, seven days a week. Call 911 in the event of an emergency, or 229-2121 for all other assistance.

Parking Services

Parking Services is responsible for management of the University's more than 3,800 parking spaces located in over 50 parking lots, and with enforcement of parking regulations. Lots are patrolled daily by Parking Services Representatives, who issue citations to violators. The following information applies to student parking.

- Campus parking facilities are extremely limited. We recommend you determine parking availability before bringing a vehicle to campus, as on street parking is also severely restricted in the vicinity of campus.
- All vehicles parked on University of Dayton property must have a valid parking permit displayed.
- First-Year residential students will NOT be permitted to bring vehicles to campus.
- Graduate/law students and graduate assistants will be sold student parking permits.
- Commuting students will be sold permits for Lot S1.
- Students living in landlord housing within one mile of campus will be sold resident student permits.
- Resident student parking priority will be given to upper class students with the highest priority being given to students with an internship or co-op, or senior education major.
- Information concerning permit sales will be disseminated to students annually.
- All students are required to apply online through the parking website at www.udayton.edu/~safety/parking.htm
- Evening students are sold N permits, which are valid in Lot B at 4:15 p.m., Lots A,C,P and S-1 at 4:00 p.m. and anytime weekends in any campus parking lot except those marked with a double letter. N permits will be honored in Lot S-1 anytime during the summer sessions.
- Students may contact Parking Services at 937-229-2128, M-F 8:00 a.m.-4:30 p.m.

Rescue Squad

The Department of Public Safety also provides around the clock emergency medical services, primarily through the support of the University of Dayton
Student Volunteer Rescue Squad, which is comprised of full-time undergraduate students. All UD Student Rescue Squad members are nationally registered EMT-Bs and volunteer their time to serve the community.

**Student Cadet Program**

Student Security Service Cadets are full-time undergraduate students who augment the Department of Public Safety's physical security and crime prevention efforts. Cadets operate the Campus Escort Service, providing free transportation within the university environs. They also provide security for the traditional residence halls according to a schedule coordinated with the Department of Residential Services.
Campus One Card

The Campus One Card is the official student ID card and is used to provide access to numerous University services such as meal plans, the Flyer Express debit account, Library, PAC, and door access.

The first Campus One Card is issued at no charge. Replacement fees apply to any additional cards. The Campus One Card Office is located in room 102 of the Powerhouse.
Each student at the University of Dayton is responsible for knowing and observing the policies, regulations, and procedures contained in the official student handbook. This publication also provides useful information on such subjects as University services, student organizations, and resource numbers.

The "University of Dayton Standards of Behavior" section of the Student Handbook is printed in booklet form and distributed to all residents of UD owned housing facilities. This booklet also is available at the Kennedy Union Information Desk for students living in other residences.

The entire Student Handbook is available at this website: http://www.udayton.edu/~studev/studenthandbook.

Changes in disciplinary policies and procedures made during an academic year will be announced to the student population via campus e-mail. The website version of the Student Handbook will be updated upon implementation of said change.
Campus Ministry

With over twenty-five staff persons and a wide variety of programs, UD has one of the largest and most active Campus Ministry programs anywhere. Our mission, inspired by the University’s Marianist tradition, is to form persons and communities in a lived faith, expressed in worship, in challenging and compassionate relationships, and in commitment to justice and service. Our programs are informed by the Roman Catholic Tradition, but Campus Ministry activities are open to all students and encourage the involvement of those from other Christian traditions and other faiths. The diversity of the UD community is recognized and celebrated through special programs for our diverse student populations.

Our primary student related activities are outlined below.

Residence Life Ministry

Campus Ministry staffs each first-year residence hall with a full-time Campus Minister and a Graduate Assistant. This team of Campus Ministers calls forth student leadership and participation in activities such as faith sharing groups, bible study, retreats, Masses, other prayer experiences, and service opportunities.

Center for Social Concern

The University of Dayton is committed to social justice education, direct service to the poor and marginalized, and work on behalf of social justice: changing unjust structures in society that oppress and marginalize human beings.

Through its Center for Social Concern, Campus Ministry provides many such opportunities for students, faculty and staff. Over thirty service clubs and many annual events provide opportunities for direct service to the poor and marginalized. Spring BreakOut Trips and Summer Immersion Trips, along with the Summer Appalachia Program offer opportunities for service and justice education in domestic and international settings. Guest speakers and a number of other activities also contribute to these goals.

Retreats and Faith Development

The Retreats and Faith Development Office in Campus Ministry offers a wide variety of retreats for sophomores, juniors, seniors, and graduate students. Most of the underclass retreats are led by student teams, and often become memorable highlights of the UD experience. Annual creative productions such as Advent Event and Lent Event explore faith and life themes through drama and music, and are open to all students. A variety of faith sharing communities develop out of these and other activities.

Liturgies and Prayer

Students, faculty and staff are very involved in the liturgical life of the University through lay ministries (e.g. lectors, communion ministers, music ministers) at daily and Sunday celebrations of the Eucharist. The Sacrament of Reconciliation is scheduled regularly, and other special prayer services occur from time to time. An interdenominational Christian worship service is held every Sunday during the school year, and other opportunities for worship are available in the local community.
Many people throughout the country have come to know the University of Dayton through the accomplishments of its intercollegiate athletic teams. Participation in athletics is part of the educational development the University offers all students. There are seven men's intercollegiate sports: football, soccer and cross country in the fall; basketball in the winter; and baseball, golf and tennis in the spring. There are ten women's intercollegiate sports: volleyball, soccer and cross country in the fall; basketball and indoor track in the winter; and softball, rowing, golf, tennis and outdoor track in the spring. Cheerleading tryouts, open to all students, are held each year.

Any student, male or female, who plans to participate in a varsity sport must be certified through the NCAA Initial-Eligibility Clearinghouse. Additionally, student-athletes are required to complete a physical examination and provide documentation of their medical history and current insurance coverage.
Intramurals and Recreational Sports

The Recreational Sports Department provides a variety of intramural activities in which anyone can find exercise surrounded by a unique spirit of fun and competition. Activities include softball, flag football, indoor and outdoor soccer, volleyball, basketball, in-line hockey, floor hockey and more. All students are invited to participate; ability is not important - just the desire to play. The Intramural Office is located on the second floor of the Physical Activities Center and students are invited to stop in at any time.

Inside the PAC is a 25 yard-pool; handball, racquetball, and squash courts; single station selectorized weight room; free weight room; four courts for basketball or volleyball surrounded by a 1/10 mile track. The Fitness Center is located on the second floor. The Fitness Center contains thirty cardiovascular machines, four TV monitors, two separate sound systems, state of the art suspended wood floor, carpet and air-conditioning. The Fitness Center is open for student usage daily. A student lounge overlooks both the Collins Gymnasium and Lackner Natatorium.

Another popular feature of the Recreational Sports Department is the Sports Club Program. Currently, there are twenty-four recognized sports clubs on campus. The Sports Club Program offers students the opportunity to participate on a competitive level, while at the same time learning and developing new skills. Anyone interested in joining a sport club or starting a new one is encouraged to come in and speak with the Sports Club Coordinator.

Schedules concerning free play hours and scheduled events may be secured from the Recreational Sports Office.
Career Services

Services and resources are comprehensive, designed for every phase of the career planning process. All University of Dayton students, including first-year students and alumni, are encouraged to register for online resources provided by Career Services.

The most utilized services are:

- Cooperative education
- Interviewing techniques seminars
- Practice job interviews
- On-campus interviews
- Résumé critiques
- Online professional job postings
- Job strategy seminars
- Data on job market, salary and employment trends
- Experiential education opportunities, including internships
- Career advising
- Career Fairs

Workshops on interviewing and job search strategies are regularly scheduled and publicized each term. Practice interviews with a professional staff member can be videotaped and evaluated upon request to prepare the student for actual on-campus interviews by company representatives.
Experiential Programs

The goal of any experiential learning program is to provide practical work experience associated with a student's course of study and/or life experience through service learning/volunteering opportunities. All students pursuing a four-year degree program should consider one or more of these programs.

- Internships
- Career-related summer employment
- Cooperative education
- Student contract program positions
- Externships and/or job shadowing
- Community/service learning
- Volunteer opportunities
- International placement or study/work abroad opportunities

Internship, summer employment, cooperative education and student contract program positions are posted on the Career Services homepage at http://careers.udayton.edu.

Simply follow the steps listed in the registration process to register for this online system.
Commuter Student Services

Commuter Student Services provides an essential aspect to the University of Dayton campus. Commuter students' knowledge and pride of the Dayton area help make out-of-town students feel more comfortable and at home while at the University. A lounge for commuter students is located in Kennedy Union 118 which is used for study, relaxation, and meeting friends. Telephone, microwave, refrigerator, and computers are provided for the convenience of commuter students.

The assistant director of Student Involvement and Leadership is advisor to the commuter students and provides services and facilities to meet the educational, developmental and physical needs of these students and maintains contact with the academic and nonacademic areas of the University to increase understanding of these specific needs.
Learning Enhancement and Academic Development (LEAD) Services

Based on our shared values, we support individuals and populations with unique learning needs and serve as a resource for all learners within the extended UD community. By providing access and facilitating the development of skills, insight, and understanding, we empower learners to succeed. What sets us apart is our collaborative approach to customized, research-based programming, which seeks to expand knowledge in the field of learning support.

LEAD Programs

Currently, LEAD delivers fourteen retention-based programs and services. LEAD supports a number of high-risk student populations, as well as students in general education courses.

As a key employer of students on campus, we develop student leaders, through training and placement of students in leadership roles such as team assistants, tutors and peer facilitators.

Courses

- Developmental Mathematics Courses (DEV 060)
- Learner Enrichment Workshop (LEW/DEV 055)

Interventions for Designated Populations

- Summer Trial Enrollment Program (STEP)
- Support and consultation for athletes at-risk
- Business Special Enrollment Program Support (BSEP)
- Peer mentoring for students with disabilities

Peer-Facilitated Learning Support linked to Specific Courses

- Supplemental Instruction (SI) in selected Humanities Base courses
- Tutor-supported English 101 and 102 (ENG T-Sections)
- Math 128 Workshop

Peer-Facilitated Learning Support for General Education Courses

- Drop-in and one-on-one tutoring in general education classes
- Writing support

Professional Support Services

- Disability academic adjustments
- Testing accommodations for students with disabilities.

DEV 060: Offered to students who need stronger foundation in mathematics to be adequately prepared for success in the math course(s) required for graduation. Students are assigned to DEV 060 after a careful review of ACT/SAT scores, transcripts, and the results of the math placement test taken on the Virtual Orientation website.

LEW/DEV 055: Required intervention for first-year students on academic probation after fall semester. Workshop activities include: four on-line assessments and prescriptive modules that target the issues causing the academic distress, individual reflections, and small or large group discussions designed to help participants develop more effective study strategies. Students work on behaviors that are self-reported as problematic, providing increased motivation for personal problem solving to achieve desired academic outcomes.
STEP: A summer bridge program that combines structured academic support and positive residential programming with the goal of facilitating transition to the UD experience. Participants are promising first-year applicants chosen by the Office of Admission because of their potential for academic success. Students who successfully complete the program demonstrate academic proficiency and the ability to participate effectively in the UD community. The Office of Residential Programs and the College of Arts and Sciences collaborate with LEAD on this program.

Athletes at Risk: A working committee consisting of a representative from Athletic Services and LEAD, meet regularly to facilitate access to already existing tutorial services including referrals for group and one-on-one tutoring support sessions, referrals to LEAD: Disability Services when appropriate, and intervention when necessary. The goal is to help student-athletes maintain academic eligibility and to promote communication between the offices that serve this population.

BSEP: An academic and residential support program developed collaboratively with the School of Business Administration and offered to select entering first-year students with the goal of improving retention. Small student cohort groups follow similar academic schedules, as well as participate in SI. Students are enrolled in the Math 128 Workshop if appropriate. Participants also live in proximity to one another in the residence halls to provide increased opportunities for group study.

Peer Mentoring: Offered as a support for selected first-year students with disabilities. Four self-report assessments are used as the basis of the program which assists students in developing appropriate learning strategies to meet their individual needs.

SI: A nationally recognized, non-remedial learning model in which students acquire and practice successful learning strategies. Peer-facilitated study groups meet regularly outside of class times to process course material presented by the instructor.

T-Sections for ENG 101 and 102: Taught by Department of English faculty with the assistance of LEAD writing tutors. The writing tutors attend a designated number of the class meetings and meet twice a week with students to review material covered in class.

Writing Support: Writing tutors work with all students in their efforts to become better writers, not to produce one perfect paper. To this end, the LEAD writing tutors do not proofread papers, nor do they tell writers what to write. During consultations, tutors ask questions, offer feedback, and encourage student-writers to talk through the thinking and planning process that is central to all stages of the writing process.

Math 128 Workshop: Offered to students who are a part of BSEP, as well as other selected students who could benefit from additional math support. It offers structured collaborative learning sessions facilitated by upper-class student leaders.

Drop-in and One-on-One Tutoring: Offered for most entry level general education courses. Individual tutors are available for general education courses not covered in drop-in. Students who have attended three drop-in tutoring sessions and require more individualized support may apply for one-on-one tutoring. Some exceptions may apply.

Disability Accommodations: LEAD: Ensures accommodations to qualified students with documented disabilities and determines appropriate academic adjustments and services.

Ryan's Lab, a collaborative effort of UDIT and LEAD, offers state-of-the-art adaptive computer technology and document conversion capabilities which include, Braille, electronic text, large print, and tactile images.

Testing Accommodations: LEAD: Ensures testing accommodations to qualified students with documented disabilities. Students who are eligible for distraction-free testing environments and/or extended time receive services at the Testing Center in Gosiger Hall. Students who are eligible for additional testing accommodations (i.e. proctor, scribe, use of computer, adaptive equipment, etc) receive services in the LTC.
Learning Enhancement & Academic Development: Disability Services (DS)

The University of Dayton is committed to including individuals with disabilities as full participants in its programs, services and activities through compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990.

The mission LEAD: Disability Services ensures that qualified students with disabilities have equal access to educational opportunities at the University of Dayton so they can participate, freely and actively, in all facets of University life. LEAD is part of the Ryan Harris Learning and Teaching Center.

LEAD: Disability Services:

- Ensures reasonable academic adjustments to qualified students with documented disabilities.
- Determines appropriate academic adjustments and support services.
- Assists the university to comply with the provisions of the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973.
- Encourages the development of self-advocacy and self-determination skills.
- Maintains and protect the confidentiality of student records as required by law.
- Assists the University community to understand the effects of disabilities and to eliminate the physical, technical, and attitudinal barriers that limit the range of opportunities for students with disabilities.

The Self Identification Process

Students registered with LEAD: Disability Services are entitled to academic adjustments in coursework, testing, etc. Students are provided a Self Identification Form specifying academic adjustments for each of their courses.

Student are directed to present faculty with a Self Identification Form completed and signed in consultation with LEAD: Disability Services. Students initiate a discussion with faculty members on how the academic adjustments(s) can best be provided in the context of the course and how and where testing academic adjustments will be handled. If there is any concern after meeting with the student about the need for or method of providing academic adjustments, the instructor, should contact LEAD: Disability Services. All students are ultimately responsible for their own academic achievement. It is up to the individual student to seek outside help and to utilize agreed upon classroom adjustments.

Roles and Responsibilities of Students, Faculty and Disability Services

Students have the right to:

1. Appropriate academic adjustments after providing disability services with appropriate documentation of the disability and determining appropriate academic adjustments with the DS
2. Confidentiality of information regarding the disability unless the student agrees in writing to release specific information to specific persons or as otherwise required by law
3. Equal access to programs and services offered throughout the campus
4. Support from Disability Services when the student has made known the need for academic adjustments to a faculty or staff member but the academic adjustments have not been made
5. File an appeal or grievance with the University 504 Compliance Officer
6. Be free from discrimination based on their disability

Students must:
University of Dayton - the Bulletin - Learning Enhancement & Academic Development: ...

1. Register with the Disability Services and provide appropriate documentation of the disability in order to be eligible for any academic adjustments from the University.
2. Contact Disability Services to request an academic adjustments and to identify what academic adjustments are appropriate.
3. Inform faculty members that they are registered with Disability Services and alert them to academic adjustments needed.
4. Meet with faculty to discuss their academic adjustments needs.
5. Provide adequate notice for academic adjustments requests.
6. Inform Disability Services if faculty or staff members request evidence of the eligibility for an academic adjustments or deny the academic adjustments.
7. Fully participate in the academic adjustments process.
8. Use academic adjustments appropriately.
9. Adhere to institutional standards of conduct.

Faculty have the right to:

1. Uphold policies contained in the Student Handbook and/or academic regulations for all students regardless of a disability.
2. Appeal the recommendations for academic adjustments if an academic adjustments would result in a fundamental alteration of the program.

Faculty must:

1. Include an Announcement & Syllabus Statement. In order to assure that students are aware that they must request services before the university is legally obligated to provide them, faculty should announce at the first class and include in the course syllabus the following syllabus statement:

   "To request academic adjustments due to disability, please contact disability services in the LEAD office in the Learning Teaching Center, LTC 023, 229-2066. If you have a Self-identification form indicating that you have a disability which requires academic adjustments, please present it to me so that we may discuss your needs."

2. Discuss request with student. Once a student has self-identified with a Self-id form, faculty must discuss with the student how and where those academic adjustments will be administered.
3. Contact Disability Services if they have any concerns after meeting with the student about the need for or method of academic adjustments. The faculty must initiate a conversation or meeting with the Disability Services staff by calling 92066.
4. Adhere to the policies and procedures and facilitate a reasonable academic adjustments as determined by Disability Services. Requested academic adjustments must be provided until any concerns are resolved.
5. Refer students to Disability Services in order for DS to determine eligibility should a student bring disability documentation directly to the faculty member.

Disability Services must:

1. Determine eligibility based on appropriate documentation provided by a qualified diagnostician.
2. Ensure reasonable academic adjustments to qualified students with documented disabilities.
3. Determine appropriate academic adjustments and support services.
4. Assist the University to comply with the provisions of the Americans with Disabilities Act of 1990 (ADA) and Section 504 of the Rehabilitation Act of 1973.
5. Encourage the development of self-advocacy and self-determination skills.
6. Maintain and protect the confidentiality of student records as required by law.
7. Assist the university community to understand the effects of disabilities and to eliminate the physical, technical, and attitudinal barriers that limit the range of opportunities for students with disabilities.

Documentation:

Appropriate documentation must be sent to LEAD: Disability Services. Documentation should include medical or psychological records from a qualified diagnostician. Records must substantiate a disability and the functional limitations in a university setting. The Disability Program Coordinators review the documentation and determine if a
student is eligible for services and what academic adjustments that student may utilize. Documentation should be sent to the address or fax number listed below.

Documentation of the disability should be sent to:

University of Dayton
LEAD: Disability Services
300 College Park
Dayton, OH 45469-1302
Fax Number: (937)229-3270
Admission

Each application for admission to the University of Dayton is considered individually. The admission committee reviews the academic achievement, aptitude, and interest of every applicant with the goal of admitting students who possess the intellectual ability and the motivation to profit best from their attendance at the University of Dayton.
Application for Admission

All applications for first-year admission must be submitted to the director of admission via the University of Dayton's electronic application. Applicants are encouraged to submit applications early in their senior year of high school. There is a priority application deadline of January 1.

The applicant must also present an official transcript of courses and grades in secondary school and the results of either the SAT-I or ACT. Any person whose native language is not English must submit an acceptable score in the Test of English as a Foreign Language (TOEFL). Exceptions to this policy may be made for students whose education has been in schools where English is the principal language of instruction.

Admission is based on the total information submitted by the applicant on his or her behalf. It is the applicant's responsibility to see that complete information has been provided to the director of admission.
Considerations for Admission

The applicant must have graduated from a high school accredited by a regional accrediting agency or by a state department of education or by the equivalent, and have a total record indicating a likelihood of success at the University of Dayton. The General Education Development (GED) certificate is also recognized for consideration by the admission committee.

The quality of the academic record is shown by the applicant's grades, standing in class, and selection of courses. Although no set pattern of courses is required for admission, a well-prepared candidate will have had from 15 to 18 units in English, social sciences, mathematics, foreign language and laboratory science. Those who plan to major in one of the natural sciences, mathematics, computer science, business administration or engineering will find a strong mathematics background helpful.

Additional indicators of academic aptitude are scores received on the SAT-I, the ACT, and, when applicable, the Test of English as a Foreign Language (TOEFL).

The admission committee is interested in the applicant's personal traits and record as a school citizen. The recommendation of the high school guidance counselor concerning ability, motivation and character is reviewed by the admission committee.

Each applicant is encouraged to visit the campus for an interview with an admission counselor. A visit also will provide an opportunity to see the campus and ask questions of the students and faculty.

Entrance Unit Recommendations

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<tr>
<th>College Major</th>
<th>English</th>
<th>Foreign Language</th>
<th>Algebra I</th>
<th>Geometry</th>
<th>Algebra II, Trigonometry</th>
<th>Mathematics IV</th>
<th>Biology</th>
<th>Chemistry</th>
<th>Physics</th>
<th>Laboratory Science</th>
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Transfer Students

Students from accredited institutions may be considered for transfer to the University of Dayton provided they are in good standing socially and academically (minimum of a C average-2.0 cumulative grade point average). Possession of the minimum grade point average for consideration does not imply admissibility to the University.

Transfer students will be considered for admission after they have followed the regular admission procedure. All applications for transfer admission must be submitted on forms supplied by the University of Dayton. SAT-I or ACT scores are required only of transfer applicants under 21 years of age. All transfer candidates must submit official transcripts from all institutions previously attended. The Office of Admission will evaluate the transcript(s) to determine the number of transferable credits. In general, all college credits earned with a "C-" or higher from any regionally accredited college or university will transfer and be included on the University of Dayton transcript. No credit will be given for a course in which the student earned below a "C-". The evaluation to determine which courses will be accepted toward the degree will be completed by the dean's office of the appropriate college or school.

A student with transfer credit from a two-year institution will be required to have at least 54 semester hours from a four-year institution for any baccalaureate degree. A transfer student is considered for a degree only if the last 30 semester hours have been taken from the University of Dayton and other requirements for graduation have been met.

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Veterans

All departments at the University have been approved by the State Approving Agency for Veterans' Training. The Veterans Affairs Office is located in Albert Emanuel Hall, first floor, and will assist in processing the necessary forms for educational benefits. Each semester the Veterans Schedule Form must be submitted and any changes in program reported in writing. Failure to follow this procedure may result in cancellation of benefits by the V.A. For the conditions for good academic standing, visit Academic Standing in Section V, Academic Regulations. If a veteran on probation fails to acquire the required cumulative grade point average at the end of the veteran's next full-time term, the benefits from the V.A. cease.
International Students

Undergraduate students who are not United States citizens or permanent residents of the United States are expected to submit the Application for Undergraduate Admission and Scholarship - international student form. They need to follow the general admission procedure outlined in previous sections and the specific procedures outlined in the application brochure. The applicant whose native language is not English must demonstrate a score of 523 (paper-based) or 193 (computer-based) on the Test of English as a Foreign Language (TOEFL). A minimum score of 956 on the English Language Proficiency Test (ELPT) may be submitted in lieu of the TOEFL.

A student unable to demonstrate an acceptable TOEFL score of at least 523 or the equivalent at the time of application may be considered for conditional admission. Such a student will be expected to attend the English Language and Multicultural Institute (ELMI) as a full-time student, successfully complete the program and obtain a TOEFL score of 523 or better before full admission will be granted.

International student applicants must present their academic credentials in official English translation along with their transcripts in the original language. The applicant must also present certification of financial resources available to support an education at the University of Dayton.

Other pertinent information may be obtained from the associate director of international recruitment.
Programs for Select At-Risk Students

The University has planned academic support programs, subject to availability, for a limited number of students who are judged to need special support to be successful at the University of Dayton.

The Summer Trial Enrollment Program (STEP) is offered to a limited number of students who are judged to need academic support. Students admitted to STEP are required to complete a summer program of two specially selected courses and academic support sessions and/or participate throughout the year in a University academic enhancement program.

The University Special Admits Program serves entering first-year students who are capable of academic success but because of deficiencies in their academic background need additional support to realize their full potential. Each year the Office of Admission, in collaboration with each academic division (College of Arts and Sciences, Schools of Business Administration, Education and Allied Professions, and Engineering), sets guidelines for accepting a limited number of first-year undergraduates as Special Admit students. Each academic division has developed support programs to help Special Admit students succeed in college. Depending on the academic division, the Special Admits Program may include careful course placement, special advising, supplemental instruction (SI) in designated courses, study tables, math workshops, and cohort formation. The Office of Admission can provide more specific information about the Special Admits Program in each academic division.
Advanced Standing by Examination

Advanced Placement (AP)

The University participates in the College Board's AP program, which allows students to receive college-level course credit for knowledge achieved through prior experience. AP examinations are given in May, upon completion of college-level material. Students who wish to receive credit and advanced placement through the AP program should have test scores sent to the University of Dayton. Advanced standing with credit in appropriate subject areas is awarded as follows:

- For a score of 5 - one or two terms of advanced standing with credit, depending on subject area
- For a score of 4 - one term of advanced standing with credit
- For a score of 3 - one term of advanced standing with credit is awarded in the following: chemistry, computer science, environmental geology, French, German, Latin, physics, psychology, Spanish and statistics

Scores below 3 do not entitle the applicant to either credit or advanced standing.

College Level Examination Program (CLEP)

The University of Dayton also participates in the College Level Examination Program (CLEP), sponsored by the College Board. CLEP offers examinations in specific subjects. Since not all subject examinations are acceptable and some subject examinations require a free response section (essay), please contact the University of Dayton for information.
High School Scholars

The University of Dayton participates in the program established by Ohio Senate Bill 140, which allows high school juniors and seniors to enroll in college courses while still enrolled in high school. This program is also known as the Post-secondary Enrollment Options program. It is selective and limited to a specific number of students. Interested students must submit applications for the High School Scholars program. These applications are available in the Office of Admission or in high school guidance offices in the Dayton area.
Financial Information

Please select a subsection using the menu to the right.
The tuition and fee charges of the University are set at the minimum permissible for financially responsible operation, and in general these charges are less than the actual costs incurred. Gifts and grants received through the generosity of industry, friends, and alumni help to bridge the difference between income and costs. The trustees of the University reserve the right to change the regulations concerning the adjustment of tuition and fees at any time the need arises and to make whatever changes in the curricula they may deem advisable.

Payment of tuition, fees, room, and board is due at the time of registration for the term or in accordance with current deferred payment terms. All checks should be made payable to the UNIVERSITY OF DAYTON. The student's name and student identification number should be shown on the face of each check to insure proper credit.

An assessment of $25.00 + 1% of the check amount will be made for payment of tuition and fees by a bad check or for any other returned check from any area at the University. This assessment is made each time a check is dishonored.

Registration for a new term, transcripts of credit, and honors of graduation may be permitted only for students whose financial University records are clear.
Undergraduate Tuition and Fees August 2004 through July 2005

Fees Payable One Time

- Application fee (online registration required) Free
- Application Fee, international or graduate students $30.00
- Counseling Center fee, payable once, at entrance $90.00
- Orientation fee, payable once, first-year resident students only $115.00
- Orientation fee, payable once, first-year commuter students only $105.00
- Miscellaneous deposit (refundable after graduation or dropout) $50.00

Tuition Charges in Terms I and II

- Full-time undergraduate student (12-17 semester hours), per term $9,785.00
- Each semester hour over limitations stated above (The eighteenth hour will not be charged to students with 45 hours or more of completed (graded) course work prior to the first day of the upcoming registration period.) $652.00
- 3/4-time undergraduate student (8-11 semester hours), per term $7340.00
- Part-time undergraduate student (1-7 semester hours), per semester hour $552.00
- Audit course, per undergraduate semester hour $326.00

Basic University Fee, Terms I and II

- Full-time and 3/4-time student (8 or more semester hours), per term $340.00
- Part-time student (1-7 semester hours), per term $25.00

Laboratory Fees, Terms I and II

- Laboratory fee, per laboratory clock hour as listed in composite (not to exceed $250.00 per term; not applicable to engineering and engineering technology students) $50.00
- Engineering surcharge fee (incorporating laboratory charges) full-time and 3/4-time engineering and engineering technology students, each term $600.00

Course Fees, Terms I and II

Fees are listed with the course names and times in each term's course composite. Following are some examples of the types of courses for which there are special course fees.

- Special fees for certain courses in art, design, and photography $20.00-75.00
- Physical Education (scuba diving, skiing, etc.) variable
- *Music fees $50.00-225.00
- *Certain courses in theatre $5.00-35.00
- Student teacher fees:
  - Yearly special fee $125.00

Tuition and Fees, Term III

Tuition per semester hour $652.00
Basic University fee $25.00
Laboratory and course fees: Same as in Terms I and II but no surcharge for engineering; laboratory fees will be charged per clock hour.

Other Charges

Late registration service charge:
- Full-time and 3/4-time students - 25.00 per week to a maximum of $75.00
- Part-time and summer students - 15.00 per week to a maximum of $45.00
- Credit by examination, per semester hour $30.00
- CLEP per credit hour $30.00
- Graduation fee, undergraduate students $75.00
- Books and supplies variable
- Semester of Service $65.00
- Transcript of credits, first copy of order $2.00
- Each additional copy of same order $1.00
- Co-op student fee, per work term $65.00

Finance charge - 1% monthly on ending balance if total amount due is not paid by the end of the month following the month of initial charge.

Full-time and 3/4-time Students

A student with an academic schedule of at least 12 semester hours is considered a full-time student. A student with an academic schedule of 8-11 semester hours is considered a 3/4-time student. With this status and upon payment of the tuition and applicable fees, the student is entitled to the benefits of the various activities and student services as available.

Part-time Students

A student with an academic schedule of fewer than 8 semester hours is considered a part-time student.

Special Students

Special students and nonmatriculated students (continuing education) are subject to the various expenses outlined above for full-time, 3/4-time, or part-time students.
Cancellation and Refunds

If registration and housing are cancelled before the first day of classes, full refunds will be made, with the exception of admission deposits.

Cancellation must be in writing on the proper form, the withdrawal or "drop" form for registration or in written form to the Residential Services Office for housing. For non-local students a letter to the appropriate dean may be used as notification of cancellation. Students who do not attend classes and do not officially complete withdrawal procedures during the cancellation period will be responsible for the full amount of the applicable tuition and fees.

During the four-week cancellation period for the first and second terms, tuition and housing credits will be given according to the following schedule:

- During first week of classes 80%
- During second week of classes 60%
- During third week of classes 40%
- During fourth week of classes 25%
- During or after fifth week of classes 0%

(The 1st week starts on the first day of a term; the 2nd week begins 7 days later, etc.)

Special course fees are fully refundable through the Friday of the first full calendar week of the term and not refundable thereafter.

Laboratory fees are fully refundable through the Friday of the first full calendar week of the term and refundable on the same schedule as tuition thereafter.

During the two-week cancellation period for each six-week session of the split third term, tuition and housing credits will be given according to the following schedule:

- During first week of classes 65%
- During second week of classes 30%
- During or after third week of classes 0%

Cancellations for a full third term course have a four-week cancellation period and will be on the same schedule as cancellations for the first and second terms.

Financial adjustments for tuition are based on the date the drop (withdrawal) form is finalized in registration.

Financial adjustments for housing (please refer to your housing contract) are based on the date of checkout from housing, if applicable.

In a summer term, special course fees are fully refundable through the first three days of the term and not refundable thereafter.

In a summer term, laboratory fees are fully refundable through the first three days of the term and refundable on the same schedule as tuition thereafter.

Special rules may apply for students who withdraw and who received Title IV funds. Please contact the Office of Financial Aid if additional information is needed.

After classes have begun, the University fee for student activities is not refundable. All tuition refund requests and appeals must be in writing and directed to the attention of David J. Necessary-Director of Student Accounts/Bursar.
Students suspended/dismissed from the University or from University residence facilities as a result of disciplinary action are not eligible for any refund of tuition and fees or room and board charges under the University’s Cancellation and Refund policy. Exceptions to this position will be made to comply with refund requirements of federal financial aid programs.
Residence Facilities Policy

Each unmarried first-year and second-year student under 21 years of age, not living at home in the Dayton area with his/her parents or legal guardian, is required to live in University housing.

Each student applying for a University residence facility must complete an online residential living contract with the Office of Residential Services. The contract covers both the fall and winter terms of the academic year. Once a contract is signed, it may not be cancelled as long as the student is enrolled at the University. The online residential contract is located on our website at: http://housing.udayton.edu

Those students dropping all courses and checking out of housing during the first four weeks of school will be authorized refunds as stated under "Cancellation and Refunds."

All students living in housing facilities are required to observe all University regulations and specific regulations of each facility. Residents will be held responsible for any damages to the residential structure, which are due to their own negligence and will share responsibility with other residents of the structure for unidentified common area damages. The same conditions shall also hold for any loss or damage to the University grounds, fixtures, furnishings, or other property provided by the University for use by the students.

Students may reside in their rooms, suites, apartments or houses without additional charge during Thanksgiving and Easter vacations. All University residences are closed during Christmas vacation period and during the Spring-term break.
Room and Board, per term, Terms I and II August 2004 through May 2005

<table>
<thead>
<tr>
<th>Residence Halls</th>
<th>Single</th>
<th>Double</th>
<th>Triple</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marycrest Complex</td>
<td>$2,420.00</td>
<td>$1,800.00</td>
<td>$1,440.00</td>
</tr>
<tr>
<td>Stuart Hall</td>
<td>2,420.00</td>
<td>1,800.00</td>
<td>NA</td>
</tr>
<tr>
<td>Founders Hall</td>
<td>2,420.00</td>
<td>1,800.00</td>
<td>NA</td>
</tr>
<tr>
<td>Marianist Hall</td>
<td>n/a</td>
<td>1980.00</td>
<td>Quad: 2350.00</td>
</tr>
</tbody>
</table>

| Apartments, Suites, Houses                     |                          |              |
|-----------------------------------------------|--------------------------|
| Campus South Apartments                        | $2,170.00 per occupant   |
| Lawnview Apartments                            | $2,320.00 per occupant   |
| Garden Apartments (2 students per apartment)   | $3,230.00 per occupant   |
| Garden Apartments (4 or 6 students per apartment) | $2,170.00 per occupant   |
| Virginia W. Kettering Residence Hall          | $2,140.00 per occupant   |
| Residential Properties (undergraduate)        | $2,200.00 per occupant   |
| Residential Properties (single bedroom)       | $2,740.00 per occupant   |
| New Construction Houses                        | $2,430.00 per occupant   |
| Renovated Houses                               | $2,320.00 per occupant   |

<table>
<thead>
<tr>
<th>ArtStreet</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Loft (4 students)</td>
<td>$2,390.00 per occupant</td>
</tr>
<tr>
<td>Townhouse (6 students)</td>
<td>$2,490.00 per occupant</td>
</tr>
</tbody>
</table>
Dining Services

All students living in residence halls must have one of the following:

- Any 12 MEAL PLAN (12 meals per week) - $1,350.00
- Any 15 MEAL PLAN (15 meals per week) - $1,440.00
- All 21 MEAL PLAN (3 meals per day, 7 days) - $1,540.00
- The Flex Plan (debit account) - $1,400.00

When a student does not choose a meal plan the default plan is the Flex Plan.

Non-resident students may purchase a Neighborhood meal plan (debit account).
Expenses

The University of Dayton operates on a "split third-term calendar." Tuition and fees for full-time students during the 2004-05 academic year (fall and winter terms) will total about $20,250 (includes the Basic University Fee) plus laboratory and/or special course fees where applicable. Room and board on campus for this period would be approximately $6,300, based on double room occupancy, any 12 meals a week plan, and a Flyer Express account for weekends. Books and supplies will cost approximately $300 each term. In addition, the student will need funds to satisfy personal expenses and extra meals on the weekends.

Expenses for commuting students will include tuition, fees, supplies, and miscellaneous living costs. Transportation to and from the University as well as lunches should be considered in the budget.
Payment Options

For those who prefer to budget annual school costs out of monthly income, the following options are available:

Credit Cards - Payment for any University charges may be made by MasterCard, Visa, American Express, and/or Discover within the credit limits for those cards.

Deferred Payment Plan - The University offers an open credit arrangement with installment provisions. All students are eligible for this plan. Students complete a one-time Credit Account Agreement form which is automatically sent prior to the first term of enrollment. Features of the plan include:

- Five monthly payments per semester
- Payments begin July 25 for fall term and December 27 for winter term
- Low interest charge of 1% per month on the ending balance
- No application fee and no credit review

Undergraduate Prepayment Plan - The University of Dayton's monthly prepayment plan, which is serviced through Key Education Resources, is a convenient alternative to lump sum semester payments. Any parent, guardian or student is eligible for this plan. Application materials may be obtained by calling 1-800-KEY-LEND (539-5363). Features of the plan include:

- Ten monthly level payments (which can be revised at anytime)
- Payments begin June 1st (you may also enroll after this date)
- No interest charges and no credit review
- Low cost - $40 application fee
- Direct Debit Option available
- College Completion Protection insurance option
Academic Scholarships for First-Year Students

President's Scholarships and Marianist Heritage Scholarships have been established to recognize excellent high school achievement by incoming first-year students. Graduates from Marianist high schools, in the US and Puerto Rico are awarded the Marianist Heritage Scholarship. Applicants receive consideration for these scholarships on the basis of the following:

- high school academic performance
- SAT or ACT scores
- demonstrated service to school, community and church
- proven leadership ability
- citizenship

Awards range from $1,000 to full tuition and each scholarship is renewable for eight undergraduate terms. To remain eligible for these scholarships, recipients must maintain the required 3.0 cumulative grade point average, be enrolled full time (minimum of 12 credit hours) and participate in University-sponsored extracurricular activities.

Application Procedure

1. Apply for admission to the University of Dayton by January 1st of your senior year in high school. Apply online at the University homepage.
2. Take the Scholastic Aptitude Test (SAT) and/or the American College Test (ACT) no later than December. Indicate that your scores are to be sent to the University of Dayton.

Berry Scholarships

Berry Scholarships are often offered to students selected into the Berry Scholars Program. These scholarships are in addition to President's or Marianist Heritage Scholarships a student has been awarded.
Academic Scholarships for Returning Students

Students in full-time attendance who have completed at least 12 semester hours on campus at the University of Dayton are eligible to apply for Upper-class Scholarships. Recipients are selected on the basis of academic accomplishments, leadership, demonstrated service to the University, and the strength of the recommendations of faculty and staff members. These scholarships are gifts to the University of Dayton, from alumni, families, corporations and foundations. The scholarships are awarded for a period of one academic year and generally range from $500 to $2,000.

Application Procedure

Upper-class scholarship applications are available online at http://www.finaid.udayton.edu/go/scholarships from January 15 through March 15 each year.
Other Scholarship Opportunities

Athletic Scholarships
The University of Dayton offers scholarships in some men's and women's intercollegiate sports to students who have demonstrated special athletic and academic promise. Recommendations for scholarship awards are made to the scholarship committee by the coach who has the responsibility for administering the particular sport. Correspondence should be directed to the head coach of the sport in which the applicant is interested.

ROTC Scholarships
U.S. Army and Air Force scholarships can be used at the University of Dayton. Students can compete for 4-yr., 3-yr., and 2-yr. awards.

Art and Music Scholarships
Music awards are awarded to both music majors and non-music majors who distinguish themselves as outstanding performers. Visual art scholarships are awarded to students who demonstrate outstanding promise in the visual arts and plan to pursue a degree in this field. Scholarships for musical and visual art talents are determined by the faculties of the appropriate academic departments.

Additional Scholarships Administered by the University of Dayton
The University is authorized to select students as nominees for scholarships offered by certain corporations, business firms, service groups and friends of the University.
Non-Need Based Grant Assistance

The Ohio Student Choice Grant is given to Ohio residents who attend private colleges in Ohio. This grant, which is awarded through the Ohio Board of Regents, is available for up to ten semesters of full-time, undergraduate enrollment at the University of Dayton. Students must complete an Ohio Residency Form, which is available in the Office of Scholarships and Financial Aid. This form must be completed within thirty days after the first semester of enrollment to confirm eligibility. The Ohio Residency Form must be completed only once; renewal for the remaining semesters is automatic for full-time students.
Financial Aid Policy

The University of Dayton realizes that most students need assistance financing their college education. Financial aid is available in the forms of nonrepayable grants, student loans and part-time employment. Parent loans and monthly payment plans are also available.

To assure an equitable distribution of financial aid resources, students applying for assistance must complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to determine the family's ability to pay for the student's education. The family's ability to pay, or expected family contribution (EFC), is calculated after careful review of income, assets and other family information.

Eligibility for need-based federal, state and university-sponsored aid is determined by comparing the total cost of attending UD with a family's ability to cover college expenses. Financial aid is considered supplemental to the student and family's efforts to meet the cost of attendance.

The FAFSA should be submitted via the Internet at http://www.fafsa.ed.gov for quicker processing time. We recommend that students submit the FAFSA to the federal processor by March 15 to ensure that the University of Dayton receives the results by the priority deadline date of May 1. Students must reapply for financial aid each year and list UD's federal code (003127) on each application. In order to sign the FAFSA online a dependent student and at least one of his or her parents must possess a federal PIN number. To apply for a PIN the appropriate parties should visit http://www.pin.ed.gov. Students are encouraged to call our office or meet with a financial aid counselor if they have questions regarding financial aid.
Grants

Federal Pell Grants
The Pell Grant Program makes funds available to eligible undergraduate students who demonstrate high financial need. Apply by completing the Free Application for Federal Student Aid (FAFSA).

Federal Supplemental Educational Opportunity Grants
These federally supported, university-administered grants are provided to undergraduate students who have high financial need. The value of this grant ranges from $200 to $3,000 per year.

Ohio Instructional Grants
These grants are intended to encourage Ohio residents to attend institutions of higher education within the state of Ohio. Residents with annual family incomes less than $39,000 may be eligible to receive this type of grant from the state of Ohio for up to ten semesters of undergraduate enrollment at the University of Dayton. They presently range from $444 to $5,466 for students at private colleges and universities (such as the University of Dayton). Each recipient of the Ohio Instructional Grant must (1) be a resident of Ohio, (2) be enrolled or accepted for enrollment as an undergraduate student in an Ohio institution of higher education, (3) be making "appropriate progress" toward a bachelor's degree, and (4) meet the financial guidelines established by the Ohio Student Aid Commission. Students enrolled in courses of study leading to degrees in theology, religion, or other fields of preparation for a religious profession are not eligible. An application packet may be obtained from the high school counselor or the Office of Scholarships and Financial Aid at the University of Dayton. To apply, complete the Free Application for Federal Student Aid (FAFSA).

Founder's Grants (University)
The University of Dayton offers nonrepayable grants to undergraduate students with demonstrated financial need. The University assumes that the student will accept self-help in the form of loans and school-year employment. The Founder's Grant is intended to cover a portion of the financial need. The Free Application for Federal Student Aid (FAFSA) is required annually for consideration.

President's Grants
The University has funds available which are reserved for students in extreme or exceptional financial need. Although recipients are not required to repay these grants, they should, when they achieve sufficient financial status, accept the obligation of reimbursing the University so that other deserving students may stay in school.

Kettering Grants
Graduates of Montgomery County (Ohio) high schools in the upper 40% of their graduating class who come to the University of Dayton as full-time entering first-year students and who demonstrate financial need may be eligible for the Kettering Grants.
Loans

Federal Perkins Loans

Federal Perkins Loans are available to those applicants who have demonstrated financial need. The maximum loan for undergraduates is $4,000 per year of undergraduate work and $20,000 total. The recipient enters the repayment cycle nine months after ceasing to carry at least half the normal full-time academic load. When the recipient enters the repayment cycle, a five percent simple interest charge is included. Repayment can be spread over a ten-year period. Recipients who teach economically, emotionally, mentally, or physically handicapped children may receive cancellations of the loan. Other cancellation privileges are available.

Federal Stafford Loans

Federal Stafford Loans (formerly Guaranteed Student Loans) are made available to all students. The maximum loan is $2,625 per year for the first year, $3,500 for the second year and $5,500 per year for the junior and senior years. Repayment begins six months after the recipient ceases to be enrolled at least half-time. During the repayment period a variable interest rate, not to exceed 8.25%, is charged. Repayment can be spread over a ten-year period.

Federal Parent Loan for Undergraduate Students

Federal Parent Loan for Undergraduate Students (PLUS) provides a source of financing to all families regardless of the family income. All credit-worthy parents of undergraduate students may borrow up to the cost of education minus financial aid per academic year for each student attending an accredited college. Repayment begins within sixty days after the loan is fully disbursed. During the repayment period a variable interest rate, not to exceed 8%, is charged. Repayment can be spread over a ten-year period.

GATE Student Loan

The University of Dayton, in cooperation with The First Marblehead Corporation and Bank of America, makes these funds available to eligible undergraduate students. The Office of Scholarships and Financial Aid determines eligibility after review of the Free Application for Federal Student Aid (FAFSA).

Students are subject to a credit test that does not require an established credit history and in most cases a co-signer is not required. Repayment begins six (6) months after the student graduates, leaves school, or drops below half-time enrollment status. The amount of each payment depends on the size of your debt. The loan carries a thirteen year graduated repayment schedule. The interest rate is variable and adjusted quarterly based on the one month LIBOR rate + 2.75. Interest begins to accrue after the first disbursement is made but can be deferred until repayment begins.

Private Alternative Educational Loans

Private Alternative Educational Loans are also available to help meet college expenses. The University of Dayton works closely with a group of preferred lenders and endorses their private loan programs. Each program offers competitive interest rates, flexible repayment schedules, and various co-signer requirements. If you are interested in a private alternative educational loan, please contact the Office of Scholarships and Financial Aid or the lenders listed below.

Key Alternative Loan, Key Bank, 1-800-539-5363

CitiAssist Loan, Citibank, 1-800-745-5473
Educaid Extra Premier Loan, Educaid, 1-800-338-2253
Sallie Mae Signature Student Loan, Bank One or Chase Manhattan Bank, 1-800-828-0290
National City Bank Alternative Loan, National City Bank/TERI, 1-800-255-8374
Employment

The Federal Work-Study Program (Federally supported) provides work opportunities for full-time and 3/4-time students who demonstrate financial need. While most work opportunities are on campus, employment is also available in local agencies and area elementary schools through the Federal Work Study Community Service Program.

University-Funded Employment (University supported) opportunities for students who do not qualify for the Federal Work-Study Program are also available.

Federal Work-Study and University-Funded student workers may work up to 20 hours per week during the school term and will receive payroll checks semi-monthly for their services. Students interested in pursuing opportunities in either of these programs should visit the Office of Student Employment, Room 148 of Albert Emanuel Hall.
Tuition Reductions

Employee Reductions

Employees, unmarried dependent children and the spouses of full-time employees are eligible for tuition remission for undergraduate courses. Employees and spouses of administrative, professional or faculty employees are also eligible for graduate school tuition remission. Interested students should contact the Office of Human Resources to complete necessary forms or to get further information regarding eligibility.

Senior Fellows

Students 60 years of age and over are eligible to apply through the College of Arts & Sciences at the University of Dayton for remission of tuition.
Additional Opportunities

Veteran Benefits

- Students who enlisted in the military as Active Duty or as Selected Reserve Status may qualify for the Montgomery G.I. Bill benefits.
- Students of a parent who is/was a military veteran may qualify for Educational Assistance Benefits.
- Contact the nearest Veteran Affairs Regional Office for additional information.

Vocational Rehabilitation

State vocational rehabilitation agencies arrange the training of handicapped persons for gainful employment. Requests for information on rehabilitation services should be directed to the State Director, Vocational Rehabilitation Agency, the State Capitol.

U.S. Army Reserve Officer Training Corp (ROTC)

The U.S. Army Reserve Officer Training Corps (ROTC) program is offered on campus by the Department of Military Science. All students who complete the basic course (first and sophomore years) may enroll in the advanced course (junior and senior years), leading to a reserve commission in the Army at the time of graduation. During the advanced course, the student who has agreed to accept the commission and serve two years’ active duty receives $150 per month subsistence. For further information visit the Department of Military Science in Academic Information.

Ohio National Guard Scholarship

- NOT based on financial need
- Available to Ohio residents enlisted in the Ohio National Guard
- Apply by contacting your local National Guard recruiter or call 1-614-889-7032
- Anticipated award $6,100/yr.

Ohio Safety Officers Memorial Fund

- NOT based on financial need
- Available to children of Ohio Peace Officers or Ohio Firefighters killed in the line of duty
- Apply by contacting UD’s Office of Scholarships and Financial Aid
- Anticipated award $3,990/yr.

Ohio War Orphans Scholarship

- NOT based on financial need
- Available to children of deceased/disabled Ohio war veterans
- Apply by contacting your local high school
- Anticipated award $4,710/yr.
- Deadline July 1
Academic Regulations

Please select a subsection using the menu to the right.
General Requirements

All bachelor's degrees granted by the University of Dayton require a minimum of 120 semester hours of credit with a cumulative grade point average of at least 2.0.

Specific requirements for the various degrees are listed under the schools granting the degrees. For more information, visit the General Information sections on the four divisions.

One year (thirty semester hours) of residence is a minimum requirement for any bachelor's degree. The semester hour is the unit by which the University measures its course work, and the number of semester hours is determined by the number of hours a week in class and the number of weeks in the session. One semester hour is assigned to a class which meets fifty minutes a week over the period of one term.

Students enrolled in the University as candidates for degrees should not take courses at other colleges or universities without first obtaining written permission from their respective deans. If the permission is granted, the dean will request "transient status" for such students at designated institutions. The University reserves the right not to accept credits for such courses when this procedure has not been followed.

The Bachelor of Science in Education may be awarded to holders of nonprofessional degrees from the University of Dayton with the completion of a minimum of thirty semester hours prescribed by the School of Education and Allied Professions beyond the requirements of the nonprofessional degree. The Bachelor of Arts or Bachelor of Science may be awarded to holders of professional degrees from the University of Dayton upon the completion of the requirements for such degrees. Any student wishing to obtain a second bachelor's degree may do so by completing the requirements for the second degree as determined by the faculty of the college or school in which this degree is offered.

Ordinarily a student who earned a first bachelor's degree or an associate degree at another institution must complete six semester hours of philosophy and/or religious studies at the University of Dayton. Such a student may be required to complete the prescribed twelve semester hours of philosophy and/or religious studies, if in the judgment of the dean, equivalent coursework had not been earned as a part of the program leading to the first degree.

All students following four-year programs are required to complete successfully the University requirements in General Education and in the Competency Program.
Competency Program

The Competency Program commits all academic programs at the University of Dayton to the common purpose of developing distinctive graduates who possess the critical communication, reasoning, and information competencies they need to function effectively in their academic, community, and professional lives. The four competency areas are part of both general and graduation competencies. General competencies form a base for effective written and oral expression, critical and quantitative reasoning, and processing and presenting print and electronic information. The general competencies are required for graduation in all four-year programs and are strongly emphasized in first-year courses and continue to be developed through a student's work in General Education, initial courses in the major, and lower-level electives. Academic departments and programs define the graduation competencies. Graduation competencies emphasize further development and maturation of the competency areas through courses in the major discipline and upper-level electives.

Reading and Writing General Competencies

The University's general reading and writing competency requirements are satisfied by completing ENG 101 and ENG 102, ENG 114, or ENG 198 with a grade of C- or higher. Students admitted to the University Honors program and students with sufficiently high verbal scores on the SAT and ACT are placed in ENG 114; Berry Scholars are placed in ENG 198. ENG 114 and ENG 198 are one-semester courses which satisfy the University requirement. Students who are placed in ENG 114 or ENG 198 do not receive credit for ENG 101 but are free to take elective course work in place of the waived first semester of composition.

All incoming first-year students are placed in ENG 101 unless:

- they are designated as Honors - placed in ENG 114
- they are in the Berry Scholars Program - placed in ENG 198
- they are placed in ENG 114 (receive EM credit for ENG 101). For a score of 5 they receive EM credit for ENG 101 and 102.
- they have an SAT (VB) score of 750 or above, or ACT (EN) of 35 or above - exempt from taking English composition

Oral Communication General Competencies

The University's general oral communication competency requirements are satisfied by completing CMM 110, CMM 111 or CMM 112, and CMM 113 for a total of three semester hours. Each of these one-hour communication modules must be completed with a C- or higher in order to satisfy the general competency requirement. No waiver exams are available for these modules. Students in the Berry's Scholars Program are exempted from this requirement.

Each of the modules covers a specific and limited context of communication - Group Decision Making (CMM 110), Informative Public Speaking (CMM 111), Persuasive Public Speaking (CMM 112), and Interviewing (CMM 113). Each module is focused on a series of communication competencies. The modules are taught in five week sessions or "mini-terms."

Students are encouraged to consult with their academic advisor, school or the College about when to register for each of the modules. Typically students, not majoring in Communication, will take CMM 110 during the first year, CMM 111 or CMM 112 during the second year, and CMM 113 second semester junior year or during the senior year. Communication majors are required to take all three modules during the first year.
Quantitative Reasoning General Competencies

In order to graduate, students are required to satisfy the Quantitative Reasoning Competencies. There are three modules, and students must satisfy each of the three modules. Students should satisfy each of these three modules by the end of the sophomore year. The modules are not described here; only how they are satisfied.

Module 1: Algebra

To satisfy Module 1, a student must pass an online examination with minimum score of 80%. All first-year students have already taken this online examination as part of the online placement exam in Virtual Orientation. Students then receive an e-mail message through their Lotus Notes accounts in which they are informed if they have passed this exam as part of the online placement exam. If that e-mail is positive, the student has satisfied Module 1. If that e-mail is not positive, the student must retake the exam. For more information, please contact Dr. Paul Eloe, Chairperson of the Department of Mathematics, at Paul.Eloe@notes.udayton.edu.

Module 2: Descriptive Statistics

Students can satisfy Module 2 in one of two ways.

1. Complete one of the following courses with a grade of C- or better or, earn EM credit for MTH 207 based upon AP examinations, or earn appropriate transfer credit. To determine if the transfer credit is appropriate, contact Dr. Paul Eloe, Chairperson of the Department of Mathematics.

   MTH 114  MTH 149  MTH 205
   MTH 207  DSC 210  PSY 216
   POL 207  SOC 308  CEE 320
   CME 281  ECE 340

OR

2. Pass an online examination with a minimum score of 80%.

Many students will naturally take one of the courses listed above to satisfy a major. Students who major in mathematics, computer science, chemistry or physics, for example, do not naturally take one of those courses listed above. They are expected to pass an examination. For more information, please contact Dr. Paul Eloe, Chairperson of the Department of Mathematics, at Paul.Eloe@notes.udayton.edu.

Module 3: Mathematical Modeling

Students will satisfy Module 3 with successful completion of one of the courses listed below. Students are expected to take the mathematics course that fits their plan of study.

Complete one of the following courses with a grade of C- or better or EM credit based upon AP examinations or transfer credit.

   MTH 114  MTH 116  MTH 128
   MTH 129  MTH 137  MTH 138
   MTH 148  MTH 149  MTH 168
   MTH 169  MTH 204  MTH 205

http://bulletin.udayton.edu/content.ud?v=6&p=1204&c=1206 7/10/2012
MTH 207  MTH 214

A grade of "D" does not constitute successful completion for the purposes of satisfying Module III. Students in this situation may retake the course, take a different course, or may satisfactorily complete a mathematical modeling project developed and administered by the Department of Mathematics. If you have questions, please contact Dr. Paul Eloe, Chairperson of the Department of Mathematics, at Paul.Eloe@notes.udayton.edu.

Information Literacy General Competencies

The University's general information literacy competencies cover five areas and are integrated into the curriculum. Students develop effective strategies for using information technologies when seeking knowledge; understand the structure, form, and access methods of recorded information; demonstrate the ability to evaluate and analyze the information gathered from a variety of sources; use information and information technology responsibly and ethically; and demonstrate an interest in and ability for life-long learning about information technology. Although responsibility for initial Information Literacy training rests within each academic unit, the Introduction to the University, Humanities Base, and General Education courses provide the opportunity to establish a solid foundation to develop the competencies.

Graduation Competencies

Graduation competencies emphasize further development and maturation of the competency areas through courses in the major discipline and upper-level electives. Each program and department establishes its own graduation reading and writing, oral communication, quantitative reasoning, and information literacy competency requirements. Contact department chairpersons or program directors for information on satisfying these requirements.
First-Year Experience Program

The University First-Year Experience Program includes a course, offered for a minimum of one credit, for all first-year students in the College of Arts and Sciences, the School of Business Administration, the School of Education and Allied Professions, and the School of Engineering. This course is combined with selected programs and services offered by Student Development, Campus Ministry, and academic support programs. First-year students entering in January and transfer students will be offered an alternative program to meet their needs.

The goals of the First-Year Experience Program are based on the theme of the Program—"Understanding Your Education, Taking Control of Your Future." The First-Year Experience Program introduces the distinctive nature of the Catholic/Marianist educational experience as a foundation for learning and life; provides an academic foundation that helps students develop as connected learners, acquire general competencies necessary for their success, understand the nature and requirements of chosen and/or potential programs of study, and be aware of a range of opportunities for enriching their academic experience on campus, across the nation, and around the world; prepares students in critical reflection on the moral and ethical dimensions of their lives, challenges students to treat each individual with equality and respect, fosters the recognition of individual rights and responsibilities of each member of the community, and establishes integrity as central to professional and career decisions; promotes the development of self-understanding and skills that enable students to take responsibility for their academic success and lifelong learning; promotes and supports, both in and out of the classroom, the physical, emotional, spiritual, and psychological health of all students; nurtures students' creativity and varied talents; and leads to enriched lives of learning, leisure, solitude, leadership, and service.

First-Year Experience Course

Every first-year student entering in the fall term must complete the First-Year Experience course offered by his or her academic division. This course will be offered for a minimum of one credit. The First-Year Experience course will not count against the seventeen credits per term limit covered by full-time tuition.

For first-year students entering the University in the winter term and for transfer students, each division will develop a plan to meet the goals of the First-Year Experience while serving the specific needs of these students.

The First-Year Experience courses offered by each division and units within divisions must include common elements as approved by the University. Beyond these common elements the divisions and academic units offering the course will have a great deal of flexibility in how the course is offered and what will be included in the syllabus.
General Education Requirements

Within the context of the University's Catholic and Marianist educational philosophy, the General Education requirements are central to the full intellectual, social, moral, and spiritual development of every student. The purpose of these requirements is to make students aware of the diversity of intellectual thought and theory represented by the sciences, the humanities, and the social sciences. Further, the General Education component of the undergraduate curriculum offers the student an opportunity to integrate and evaluate information from various disciplines and thus enhance the study of a specific profession, field, or major. These requirements are integral to the University's goal of preparing students for a life of leadership and service, of helping students to grow not only in knowledge, skills, and professional competence, but also as morally responsible decision makers who are aware of the needs of the global community.

Complete information on the General Education Program is available on Portfolio at http://portfolio.udayton.edu

Domains of Knowledge

To achieve these goals, the University requires the completion of General Education courses in five domains of knowledge.

Arts Study: The experience of generations confirms that life is enriched immeasurably by experiencing the world through the arts. Every student should develop some understanding of this experience and must take one course in the arts and/or language as a means of aesthetic and/or cultural expression. Performing or production courses do not fulfill this requirement.

Historical Study: A person with knowledge of history can relate ideas and events to one another within a context understood by the community of educated men and women; therefore, every student at University of Dayton must take two history courses. One of those courses, HST 103 or HST 198, will be taken as part of the Humanities Base.

Philosophy and Religious Studies: As a Catholic and Marianist institution of learning, the University regards religious studies and philosophy as serving a special function. Students should have an opportunity to deepen their knowledge of the religious and philosophical traditions that shape their shared heritage. Study of these areas, especially when conducted through interdisciplinary courses, can also help students integrate their knowledge of the themes and institutions of societies through the ages. Since every student should be encouraged to go beyond the introductory level in either or both of these areas, every student must take four courses in religious studies and philosophy. Introductory courses in both philosophy and religious studies are required as part of the Humanities Base.

Physical and Life Sciences: The physical and life sciences and technology have affected the quality of life in every age, but never more than in the present. The potential of science and technology for both good and evil will undoubtedly increase in the future. It is essential, therefore, that educated citizens understand the methods of science and its application through technology. For these reasons students must take two courses in the physical and life sciences and technological applications.

Social Sciences: Educated members of society need to understand the dynamics through which people relate to each other as individuals, in groups, and as producers and consumers of goods and services. Effective relationships sustain us as members of families, professions, nations, and the global
community. Students, therefore, must take at least one course in the social sciences.

Structure of General Education Requirements

To achieve the goals of raising fundamental questions about human existence, encountering these questions in a meaningful context and encouraging significant integration, students must complete the Humanities Base and a thematic cluster as part of their General Education requirements.

Humanities Base

General Education raises a set of questions that challenges students to develop and formulate their own conception of what it means to be human. These questions may be considered in any number of disciplines, but they are essential to the humanities. Consequently, all undergraduates must complete, preferably during their first year, a Humanities Base of one course in each of the following disciplines:

History: HST 103, The West and the World; or HST 198, History Scholars' Seminar
Philosophy: PHL 103, Introduction to Philosophy
Religious Studies: REL 103, Introduction to Religion (choice of Catholic, general, or scripture option) or REL 198, Religious Studies Scholars' Seminar
English: ENG 102, College Composition II or ENG 114, Freshman Writing Seminar or ENG 198, English Scholars' Seminar

Students in the Core Program take ASI 111 and ASI 112 to satisfy the history, religious studies, and philosophy requirements in the Humanities Base, as well as Core-designated sections of English composition. The history portion of ASI 112 completes the second of the two courses for the Historical Study domain of knowledge.

Thematic Clusters

To facilitate an integrated view of the domains of knowledge and to encourage students to understand the broad world around them, all undergraduates must complete one thematic cluster. A thematic cluster is a series of courses from the domains of knowledge, focusing on an issue central to the human condition. To fulfill the thematic cluster requirement, students must complete a minimum of three approved courses in a single cluster, representing three different domains of knowledge. For the purpose of thematic clusters, philosophy and religious studies are considered separate domains of knowledge. Students will receive specific information about thematic clusters from their faculty advisors. Students must have the approval of their advisors before selecting and registering for a thematic cluster. The Guide to the University of Dayton General Education Program describing all approved clusters and their course offerings is distributed to all students at http://portfolio.udayton.edu.

Completing General Education Requirements

At the maximum, students could enroll in as many as seven thematic cluster courses in the appropriate domains of knowledge. These courses, combined with the Humanities Base, would fulfill all General Education requirements. In most cases, however, students will have to complete some domain of knowledge requirements outside of the courses serving a thematic cluster. With their advisors' approval, students may elect to take any designated General Education course within the appropriate domain to help satisfy requirements. Many of the courses listed as approved courses under a domain of knowledge will also serve the same purpose as a course in a thematic cluster. You can view courses that have been approved by the University for General Education credit by visiting Portfolio at: http://portfolio.udayton.edu

Each department determines whether its majors are free to choose from among all the approved nonrestricted courses, or are to choose from among a limited number of approved courses, or are required to take only specific approved courses. The University has approved some courses for certain majors exclusively, and those courses are, therefore, restricted to those majors for General Education credit. Students should consult their advisors to learn which courses are permissible in their own majors.
Arts Study

All students must complete one Arts Study course to satisfy General Education Requirements. This course is in addition to the Humanities Base English course (ENG 102, ENG 114, or ENG 198). This requirement may be satisfied by Arts Study courses that are either included in or independent of a thematic cluster.

General Education courses that satisfy this requirement are:

- ASI 341 TOPICS ARTS STUDY
  - Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.
- ASI 347 PHYSICS AND LITERATURE
- ASI 351 CONSTRUCTING CIVILIZATION
- ASI 357 VOCATION AND THE ARTS
- CLA 203 CLASSICAL MYTHOLOGY
- CMM 355 RHETORIC OF SOCIAL MOVEMENTS
- ENG 151 INTRODUCTION TO LITERATURE
- ENG 198 ENGLISH SCHOLARS' SEMINAR
  - Restrictions: Berry Scholars only
- ENG 203 MAJOR BRITISH WRITERS
- ENG 204 MAJOR AMERICAN WRITERS
- ENG 205 MAJOR WORLD WRITERS
- ENG 301 SURVEY OF EARLY ENGLISH LITERATURE
- ENG 302 SURVEY OF LATER ENGLISH LITERATURE
- ENG 305 SURVEY OF AMERICAN LITERATURE
- ENG 306 SURVEY OF CONTINENTAL LITERATURE
- ENG 320 CONTEMPORARY DRAMA
- ENG 322 MASTERPIECES OF WORLD LITERATURE
- ENG 323 LITERATURE OF THE CHRISTIAN TRADITION
- ENG 333 IMAGES OF WOMEN IN LITERATURE
- ENG 334 MODERN MEN--IMAGES
- ENG 335 MODERN BLACK LITERATURE
- ENG 336 GENDER IN FICTION
- ENG 338 IMAGES OF BUSINESS
- ENG 340 THE PRISON IN LITERATURE
- ENG 342 LITERATURE AND THE ENVIRONMENT
- ENG 345 COLONIAL AND POSTCOLONIAL LITERATURE
- ENG 348 MODERN IRISH LITERATURE
- ENG 350 EUROPEAN LITERATURE OF ANTIQUITY
- ENG 353 LITERATURE OF THE RENAISSANCE
- ENG 354 LITERATURE OF THE ENLIGHTENMENT
- ENG 355 LITERATURE OF THE ROMANTIC AGE
- ENG 356 EUROPEAN LITERATURE OF THE NINETEENTH CENTURY
- ENG 357 EUROPEAN LITERATURE OF THE EARLY TWENTIETH CENTURY
- ENG 358 CONTEMPORARY LITERATURE OF EUROPE
ENG 362 SHAKESPEARE
ENG 363 SHAKESPEARE’S WORLDS
ENG 382 MOZART’S OPERAS
ENG 383 THE TRAGIC DILEMMA
Restrictions: for Core only
ENG 384 CHRISTIANITY AND MODERN POETRY
FRN 352 OLD WORLD MEETS NEW (ENG)
FRN 452 OLD WORLD MEETS NEW (FRN)
GER 361 SURVEY OF GERMAN LITERATURE I
GER 362 SURVEY OF GERMAN LITERATURE II
HMS 360 LATIN AMERICA THROUGH LITERATURE
MUS 201 MUSIC IN CONCERT
MUS 203 SIGHTS AND SOUNDS OF MUSIC
MUS 205 MUSIC, INSTRUMENTS, AND TECHNOLOGY
MUS 232 INTEGRATING THE ARTS: MUSIC
MUS 302 MUSIC HISTORY AND LITERATURE I, II
Restrictions: for MUE, MUS only
MUS 303 INTRODUCTION OF MUSICS OF THE WORLD
MUS 304 HISTORY OF AMERICAN MUSIC
MUS 305 AFRICAN-AMERICAN SACRED MUSIC
MUS 306 HISTORY OF AMERICAN JAZZ
MUS 309 OPERA HISTORY AND LITERATURE
MUS 310 MOZART’S OPERAS
MUS 325 BEETHOVEN AND HIS ERA
MUS 327 MUSIC IN FILM
MUS 350 SACRED MUSIC HISTORY
THR 105 INTRODUCTION TO THE THEATRE
VAE 232 INTEGRATING THE ARTS: VISUAL ARTS
VAH 101 INTRODUCTION TO THE VISUAL ARTS
VAH 201 SURVEY OF ART I
VAH 202 SURVEY OF ART II
VAH 203 SURVEY OF ART III
VAH 483 TWENTIETH-CENTURY ART II
VAR 220 VISUAL RESOURCES

Historical Study

All students must complete two Historical Study courses to satisfy General Education Requirements. The first Historical Study course, (HST 103, HST 198, or ASI 111), forms part of the Humanities Base. The second Historical Study course can be part of a thematic cluster or serve simply to satisfy that Domain of Knowledge requirement of General Education. The restriction on certain Historical Study courses apply both to the majors indicated and the second disciplines. (Education students should see checklists.) General Education courses that may satisfy the requirement for a second course in Historical Study are:

AMS 301 INTERPRETATIONS OF AMERICAN CULTURE
ASI 111 CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES
Restrictions: for Core only
ASI 112 CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES
Restrictions: for Core only—meets HST cluster requirement and PHL Humanities Base requirement
ASI 342 TOPICS HST STUDY
Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.
CMM 350 PROPAGANDA ANALYSIS
CMM 416 DEVELOPMENT OF MASS MEDIA
Restrictions: for CMM only
GER 341 GERMAN CULTURE AND CIVILIZATION
HSS 275 HISTORY OF PHYSICAL EDUCATION AND SPORT
Restrictions: for HSS only
HST 101 HISTORY OF WESTERN CIVILIZATION FROM ITS CLASSICAL ROOTS TO 1715
Restrictions: Meets Humanities Base requirement for students entering prior to Fall 2004.
HST 102 HISTORY OF WESTERN CIVILIZATION SINCE 1715
Restrictions: Meets Humanities Base requirement for students entering prior to Fall 2004.
HST 103 THE WEST AND THE WORLD
HST 198 HISTORY SCHOLARS' SEMINAR
Restrictions: Berry Scholars only
HST 251 AMERICAN HISTORY TO 1865
HST 252 AMERICAN HISTORY SINCE 1865
HST 302 HISTORY OF ANCIENT GREECE
HST 303 HISTORY OF THE ROMAN REPUBLIC AND EMPIRE
HST 305 MEDIEVAL EUROPE
HST 307 RENAISSANCE AND REFORMATION
HST 308 SHAKESPEARE'S WORLDS
HST 313 THE DUAL REVOLUTION AND ITS CONSEQUENCES - EUROPE 1815-1914
HST 314 MODERN EUROPE IN DECLINE - 1890-1945
HST 315 EUROPE IN THE POSTWAR ERA--1945 TO THE PRESENT
HST 316 BEETHOVEN AND HIS ERA
HST 322 HISTORY OF ENGLAND
HST 324 COMPARATIVE NATIONALISM
HST 326 RUSSIA, THE SOVIET UNION AND BEYOND, 1860-PRESENT
HST 327 NATIONAL CULTURES OF THE SOVIET UNION AND ITS SUCCESSOR STATES
HST 328 HISTORY OF EASTERN EUROPE
HST 330 HISTORY OF SOUTHEAST ASIA
HST 333 THE MIDDLE EAST, NINETEENTH AND TWENTIETH CENTURIES
HST 334 HISTORY OF THE PALESTINIAN-ISRAEL CONFLICT
HST 335 HISTORY OF SOUTH ASIA
HST 336 HISTORY OF AFRICA TO 19TH CENTURY
HST 337 HISTORY OF AFRICA-19TH CENTURY TO THE PRESENT
HST 338 STATE AND SECESSION IN SOUTH ASIA
HST 340 HISTORY OF SCIENCE
HST 341 HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY
HST 342 ENVIRONMENTAL HISTORY OF THE AMERICAS
HST 343 HISTORY OF CIVIL ENGINEERING
HST 344 HISTORY OF SCIENCE, TECHNOLOGY, AND THE MODERN CORPORATION
HST 346 HISTORY OF AMERICAN AVIATION
HST 347 SEX, RACE, & SCIENCE
HST 349 TECHNOLOGY AND THE CULTURE OF WAR
HST 351 AMERICAN WOMEN'S AND GENDER HISTORY
HST 352 HISTORY OF THE AMERICAN FAMILY
HST 353 HISTORY OF WOMEN IN EUROPEAN SOCIETIES
HST 354 HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST
HST 355 AMERICAN URBAN HISTORY
HST 356 COMPARATIVE HISTORY OF WOMEN IN THE THIRD WORLD
HST 357 LATIN AMERICA IN THE TWENTIETH CENTURY
HST 358 SOCIAL AND CULTURAL HISTORY OF LATIN AMERICA
HST 360 U.S. LEGAL AND CONSTITUTIONAL HISTORY I
HST 361 U.S. LEGAL AND CONSTITUTIONAL HISTORY II
HST 370 ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES
HST 372 HISTORY OF RELIGION IN THE UNITED STATES
HST 374 IRELAND AND AMERICA
HST 376 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
HST 377 CONTEMPORARY AMERICAN HISTORY
HST 378 HISTORY OF GLOBAL IMMIGRANTS TO THE UNITED STATES
HST 380 NATIVE AMERICAN HISTORY
HST 382 HISTORY OF MEXICO
HST 383 HISTORY OF THE CARIBBEAN
HST 384 ECONOMIC HISTORY OF LATIN AMERICA
HST 385 THE ATLANTIC WORLD, 1492-1800
HST 391 AMERICAN ARCHITECTURAL HISTORY AND PRESERVATION
HST 398 HISTORY OF BLACKS IN THE UNITED STATES, 1526-1900
HST 399 HISTORY OF BLACKS IN THE UNITED STATES SINCE 1900
MUS 301 MUSIC HISTORY AND LITERATURE I
Restrictions: for MUE, MUS only
PSY 471 HISTORY OF PSYCHOLOGY
Restrictions: for PSY only
THR 415 HISTORY OF THE THEATRE I
Restrictions: for THR only
THR 425 HISTORY OF THE THEATRE II
Restrictions: for THR only
VAH 360 ART HISTORY AND FEMINISM
VAH 382 HISTORY OF PHOTOGRAPHY I
Restrictions: for PHO only
VAH 480 TWENTIETH-CENTURY ART I
Restrictions: for ART and EAR, only

Philosophy

All students complete PHL 103 and REL 103 or REL 198, or ASI 111 and ASI 112, as part of the Humanities Base. Students are required to take an additional two courses in philosophy and/or religious studies to satisfy General Education Requirements. This requirement may be satisfied by philosophy and/or religious studies courses that are either included in or independent of a thematic cluster.

ASI 112 CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES
Restrictions: for Core only—meets HST cluster requirement and PHL Humanities Base requirement
ASI 343 TOPICS PHL STUDY
Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.
ASI 371 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY SBA
Restrictions: for Core only
ASI 372 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY EDU
Restrictions: for Core only
ASI 373 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY ENGR
Restrictions: for Core only
ASI 374 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY PHL
Restrictions: for Core only
EDT 301 PHILOSOPHY OF EDUCATION
Restrictions: for Education and E-11 only Course removed from general education 12/05/02
EDT 302 CATHOLIC PHILOSOPHY OF EDUCATION
Restrictions: for Education and E-11 only Course removed from general education 12/05/02
EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION
Restrictions: for Education and E-11 students only
PHL 103 INTRODUCTION TO PHILOSOPHY
PHL 201 PRACTICAL LOGIC
PHL 302 SYMBOLIC LOGIC
PHL 304 PHILOSOPHY OF HUMAN NATURE
PHL 306 PHILOSOPHY OF KNOWLEDGE
PHL 307 PHILOSOPHY AND WOMEN
PHL 308 METAPHYSICS
PHL 309 PHILOSOPHY OF MIND
PHL 310 SOCIAL PHILOSOPHY
PHL 311 PHILOSOPHY OF RELIGION
PHL 312 ETHICS
PHL 313 BUSINESS ETHICS
PHL 314 PHILOSOPHY OF LAW
PHL 315 MEDICAL ETHICS
PHL 316 ENGINEERING ETHICS
PHL 317 ETHICS AND MODERN WAR
PHL 318 FAMILY ETHICS
PHL 319 INFORMATION ETHICS
PHL 320 PHILOSOPHY OF ART
PHL 321 ENVIRONMENTAL ETHICS
PHL 323 PHILOSOPHY AND LITERATURE
PHL 324 PHILOSOPHY AND FILM
PHL 325 PHILOSOPHY OF MUSIC
PHL 327 PHILOSOPHY OF PEACE
PHL 330 PHILOSOPHY OF SCIENCE
PHL 331 SCIENCE, OBJECTIVITY, AND VALUES
PHL 332 TECHNOLOGY AND VALUES
PHL 333 PHILOSOPHY AND COGNITIVE SCIENCE
PHL 345 PHILOSOPHY SCHOLARS' SEMINAR
  Restrictions: Berry Scholars only
PHL 350 CLASSICAL GREEK PHILOSOPHY
PHL 351 MEDIEVAL PHILOSOPHY
PHL 352 MODERN PHILOSOPHY
PHL 353 KANT AND NINETEENTH-CENTURY PHILOSOPHY
PHL 354 TWENTIETH-CENTURY PHILOSOPHY
PHL 355 EASTERN PHILOSOPHY
PHL 356 CHRISTIAN PHILOSOPHY
PHL 357 RADICAL PHILOSOPHY
PHL 358 MARXIST PHILOSOPHY
PHL 360 EXISTENTIALISM
PHL 361 AMERICAN PHILOSOPHY
PHL 363 AFRICAN PHILOSOPHY
PHL 364 RACE, GENDER, AND PHILOSOPHY
PHL 365 PHILOSOPHY AND CULTURE
PHL 370 POLITICAL PHILOSOPHY
PHL 371 PHILOSOPHY AND HUMAN RIGHTS
PHL 372 VALUES AND ECONOMICS
PHL 373 PHILOSOPHY AND CULTURAL DIVERSITY

Religious Studies

All students complete REL 103 or REL 198 and PHL 103, or ASI 111 and ASI 112, as part of the Humanities Base. Students are required to take an additional two courses in philosophy and/or religious studies to satisfy General Education Requirements. This requirement may be satisfied by philosophy and/or religious studies courses that are either included in or independent of a thematic cluster.
ASI 111
CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT
OF MODERN CULTURES AND VALUES
Restrictions: For Core only

ASI 344
TOPICS REL STUDY
Restrictions: Specific topics approved for designated cluster.
Consult semester class schedule.

ASI 371
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY SBA
Restrictions: For Core only

ASI 372
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY EDU
Restrictions: For Core only

ASI 373
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY ENGR
Restrictions: For Core only

ASI 375
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY REL
Restrictions: For Core only

REL 103
INTRODUCTION TO RELIGION

REL 198
RELIGIOUS STUDIES SCHOLARS' SEMINAR
Restrictions: Berry Scholars only

REL 300
SELECTED RELIGIONS OF THE EAST

REL 304
HINDUISM

REL 305
EASTERN ORTHODOXY

REL 306
BUDDHISM

REL 307
JUDAISM

REL 308
ISLAM

REL 310
THE PENTATEUCH

REL 311
THE PROPHETS

REL 312
THE PSALMS AND THE WISDOM LITERATURE

REL 315
THE GOSPELS

REL 316
NEW TESTAMENT THEOLOGIES

REL 318
STUDIES IN PAUL

REL 319
THE BOOK OF REVELATION

REL 323
HISTORY OF CHRISTIANITY I (100-1100)

REL 324
HISTORY OF CHRISTIANITY II (1100-PRESENT)

REL 326
PROTESTANT CHRISTIANITY

REL 327
U.S. RELIGIOUS EXPERIENCE

REL 328
U.S. CATHOLIC EXPERIENCE

REL 329
AFRICAN-AMERICAN RELIGION

REL 344
CHRISTIAN MARRIAGE

REL 356
THE CHRISTIAN TRADITION OF PRAYER

REL 358
LIBERATION THEOLOGY

REL 360
CHRISTIAN ETHICS

REL 362
CHRISTIAN FAMILY VALUES AND TELEVISION

REL 363
FAITH AND JUSTICE

REL 365
CHRISTIAN ETHICS AND THE ENVIRONMENT

REL 366
THE HOLOCAUST: THEOLOGICAL AND RELIGIOUS RESPONSES

REL 367
CHRISTIAN ETHICS AND HEALTH CARE ISSUES

REL 368
CHRISTIAN ETHICS AND THE BUSINESS WORLD

REL 369
CHRISTIAN ETHICS AND ENGINEERING

REL 372
RELIGION AND FILM

REL 373
RELIGION AND LITERATURE

REL 374
RELIGION AND THE ARTS

REL 375
RELIGION AND SCIENCE

REL 376
THEOLOGY AND THE SOCIAL SCIENCES

REL 377
THE INNER JOURNEY IN MYTH, BIBLE, AND LITERATURE

REL 383
PHILOSOPHY OF RELIGIOUS EDUCATION

REL 429
MODERN CATHOLICISM
REL 437 SIGNIFICANCE OF JESUS
REL 440 THE CHURCH
REL 441 THEOLOGY OF MARY
REL 442 GOD AND ATHEISM
REL 443 THE SACRAMENTS
REL 444 GOD IN CHRISTIAN TRADITION
REL 446 CHRISTIAN LITURGY
REL 447 SELECTED CATHOLIC DOCTRINES
REL 471 WOMEN AND RELIGION
REL 472 ECOLOGY AND RELIGION
REL 474 WOMEN AND THE GLOBAL CHURCH
REL 488 SPIRITUALITY AND RELIGIOUS EDUCATION

Physical & Life Science

All students must complete two Physical and Life Sciences courses to satisfy General Education Requirements. This requirement may be satisfied by Physical and Life Science courses that are included in or independent of a thematic cluster. Students should consult with their advisors about specific requirements or recommendations related to their majors.

ASI 346 TOPICS SCIENCE STUDY
Restrictions: Specific topics approved for designated cluster.
Consult semester class schedule.

BIO 101 GENERAL BIOLOGY I
BIO 102 GENERAL BIOLOGY II
Restrictions: not for BIO, DEN, MED

BIO 151 CONCEPTS OF BIOLOGY I
BIO 152 CONCEPTS OF BIOLOGY II

BIO 360 ISLAND ENVIRONMENTAL BIOLOGY
BIO 395 GLOBAL ENVIRONMENTAL BIOLOGY

CEE 390 ENVIRONMENTAL POLLUTION CONTROL
Restrictions: not for CEE majors

CHM 115 COLLEGE PREPARATORY CHEMISTRY
CHM 123 GENERAL CHEMISTRY
CHM 124 GENERAL CHEMISTRY
CHM 200 CHEMISTRY AND SOCIETY
CHM 496 PROFESSIONAL PRACTICES SEMINAR
Restrictions: for CHM only

EGR 320 SYSTEMS DESIGN SCHOLARS' SEMINAR
Restrictions: Berry Scholars only

GEO 103 PRINCIPLES OF PHYSICAL GEOGRAPHY
Restrictions: not for BIO, CHM, GEO, PHY, or those who have taken GEO 109 or GEO 115

GEO 109 GENERAL GEOLOGY
GEO 115 PHYSICAL GEOLOGY
GEO 116 GEOLOGICAL HISTORY OF THE EARTH
GEO 208 ENVIRONMENTAL GEOLOGY
GEO 218 ENGINEERING GEOLOGY

PHY 105 PHYSICAL SCIENCE
PHY 108 PHYSICAL SCIENCE OF LIGHT AND COLOR
PHY 201 GENERAL PHYSICS
PHY 202 GENERAL PHYSICS
PHY 203 MODERN TECHNICAL PHYSICS
PHY 206 GENERAL PHYSICS I-MECHANICS
PHY 207 GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM
PHY 208 GENERAL PHYSICS III - MECHANICS OF WAVES
PHY 250 DESCRIPTIVE ASTRONOMY
SCI 190  THE PHYSICAL UNIVERSE  
Restrictions: INSS

SCI 210  THE DYNAMIC EARTH  
Restrictions: INSS

SCI 220  THE WORLD OF CHEMISTRY  
Restrictions: INSS

SCI 230  ORGANISMS, EVOLUTION & ENVIRONMENT  
Restrictions: INSS

SCI 240  ORGANISMS, EVOLUTION, AND HEALTH  
Restrictions: INSS

Social Science

All students must complete one Social Science course to satisfy General Education Requirements. This requirement may be satisfied by Social Science courses that are either included in or independent of a thematic cluster. General Education courses that satisfy this requirement are:

AMS 300  AMERICAN CULTURES
ANT 150  CULTURAL ANTHROPOLOGY
ANT 300  EVOLUTION OF PEOPLE AND CULTURE
ANT 360  CULTURES OF SOUTH ASIA
ASI 345  TOPICS SOC SCI STUDY  
Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.

ASI 358  CHRISTIANITY, CITIZENSHIP, AND SOCIETY
CMS 316  INTERCULTURAL COMMUNICATIONS
CMS 414  GLOBAL COMMUNICATION
CMS 415  WOMEN AND COMMUNICATION
ECO 203  PRINCIPLES OF MICROECONOMICS
ECO 204  PRINCIPLES OF MACROECONOMICS
ECO 300  PRINCIPLES OF ECONOMICS
ECO 310  ECONOMICS OF THE ENVIRONMENT
ECO 460  ECONOMIC DEVELOPMENT AND GROWTH
ECO 461  INTERNATIONAL ECONOMICS
EDT 303  SCHOOL, SELF, AND SOCIETY
POL 101  GLOBAL POLITICS
POL 306  PUBLIC POLICY ANALYSIS
POL 307  THE POLITICS OF BUREAUCRACY AND REGULATION
POL 321  RUSSIA AND THE NEW STATES
POL 331  NATIONALISM AND ETHNOPOLITICS
POL 371  ENVIRONMENTAL POLICY
POL 450  CIVIL LIBERTIES
PSY 101  INTRODUCTORY PSYCHOLOGY
PSY 334  INDUSTRIAL PSYCHOLOGY
PSY 341  SOCIAL PSYCHOLOGY
PSY 375  PSYCHOLOGY OF THE ARTS
PSY 443  PSYCHOLOGY OF WOMEN
PSY 444  ENVIRONMENTAL PSYCHOLOGY
PSY 445  TECHNOLOGY, ENVIRONMENT, AND BEHAVIOR
SOC 204  MODERN SOCIAL PROBLEMS
SOC 321  THE SOCIOLOGY OF WORK AND OCCUPATIONS
SOC 322  SEX ROLES AND SOCIETY
SOC 326  LAW AND SOCIETY
SOC 328  RACIAL AND ETHNIC MINORITIES
SOC 331  MARRIAGE AND THE FAMILY
SOC 332  SOCIOLOGY OF WOMEN
SOC 339  SOCIAL INEQUALITY
SOC 341 SELF AND SOCIETY
SOC 343 MASS COMMUNICATION IN MODERN SOCIETY
SOC 352 COMMUNITY
SOC 398 SOCIAL SCIENCE SCHOLARS' SEMINAR
Restrictions: Berry Scholars only
SWK 331 DEATH, DYING, AND SUICIDE
Grades and Scholarship

Final grades are submitted at the end of the term, and these are made part of a student's permanent record in accord with the option chosen by the student. Copies of these reports are given to the students and deans. A progress report of every first-year student in each of the classes is submitted to the Registrar by every instructor at the middle of each term.

Undergraduate students are permitted a selection from two alternative grading options. The course grading options are as follows:

Option 1-A, A-, B+, B-, C+, C, C-, D, F
Option 2-S/NC-Satisfactory (C- or higher)/No Credit (D, F)
Option 3-EM-Examination Credit

In addition to those courses which must be taken under Option 2, a student may take a maximum of fifteen semester hours under Option 2 within the hours required for graduation in the degree program. A student may take any course beyond the minimum hours required for graduation in the degree program under Option 2. All courses that are used to fulfill General Education and Competency requirements must be taken under Option 1. The college/school or department may place further restrictions on the use of Option 2. Exceptions to this policy may be made by the dean (or the dean's designee) of the college/school in which a student is enrolled. NOTE: Studies have shown that Satisfactory/No Credit grades (Option 2) on one's academic record may be a negative factor in admission to most professional schools (law, medicine, etc.) and many graduate schools, and for employment in some fields.

The official marks with their meanings and quality-point values are as follows:

A - Excellent; for each semester hour, 4.0 quality points are allowed.
A- - For each semester hour, 3.667 quality points are allowed.
B+ - For each semester hour, 3.333 quality points are allowed.
B - Good, for each semester hour, 3.0 quality points are allowed.
B- - For each semester hour, 2.667 quality points are allowed.
C+ - For each semester hour, 2.333 quality points are allowed.
C - Fair; for each semester hour, 2.0 quality points are allowed.
C- - For each semester hour, 1.667 quality points are allowed.
D - Poor but passing; for each semester hour, 1.0 quality point is allowed.
F - Failed. This mark indicates poor scholastic work, or failure to report withdrawal from a course. In such cases, required courses must be repeated or retaken, preferably at the next opportunity.
S - Satisfactory. This mark indicates credit given for a course taken under grading Option 2, C- or higher. The S credit shall be counted as hours only and shall not be considered in determining a student's cumulative point average.
NC - No Credit. This mark indicates no credit given for a course taken under grading Option 2, below C-. In such cases, required courses must be repeated or retaken, preferably at the next opportunity.
I - Incomplete. This grade indicates that the student has obtained the instructor's recommendation, subject to the chairperson's approval, to complete some portion of the work of the term that for reasons beyond the student's control was not completed before the end of the term, provided that the rest of the work has been of satisfactory grade. An I must be removed within thirty days from the date listed on the grade report, or it will be changed to an F or NC (option 2) on the student's permanent record. The time limit may be extended under exceptional circumstances, with the approval of the dean, if application for the extension is made within the thirty-day period noted.
W - Withdrawn. During the first three weeks of a full term (or the first eight class days of a split term) a student may withdraw from a class without record by
obtaining a drop (withdrawal) form from the Registration Office, having it signed by the academic advisor, and processing it. Beginning with the fourth week of the term and continuing through the fourth week after mid-term (or the ninth class day of a split term and continuing through the fourth week of the split term), a student may withdraw with a W by the same process, except that the drop form must have the approval signature of the instructor as well as that of the advisor. For the remainder of the term, until the last day of classes, a student may withdraw with a W only by making a formal request to the dean, who consults with the student's instructor before granting such a request. During this period, students will be permitted only for special nonacademic reasons, which include, but are not limited to, poor personal health, financial difficulties, family matters of health, and change in career objectives. When a student finds it necessary to withdraw from the University, for any reason whatsoever, it is important that the dean be notified immediately. Financial adjustments, if allowed, will be made only from the date on the withdrawal form. Total withdrawal from all classes requires the processing of the drop form. This requires one signature from the student's Academic dean. It is the student's responsibility to initiate and process all withdrawals; the faculty do not initiate withdrawals for students except for auditors. (See X below.) In addition, the student is urged to process the withdrawal as soon as possible after deciding to drop a course. Students cannot assume that withdrawals are granted automatically if they stop attending class. Any failure to process the drop (withdrawal) form will incur a grade of F for the course or courses involved. The F's so accumulated are always included in the cumulative grade-point average.

P - In Progress. This symbol is used in lieu of a grade for a course which has not terminated at the end of a term or summer session. A grade with corresponding credit and quality points (see grading Options 1 and 2) will be assigned when the course has been completed.

N - No grade was reported by the instructor.

K - Credit. This mark is used only for credits accepted as transfer credit from other institutions. No quality points are allowed. K credit is not allowed for English courses taken at institutions in countries where the native language is other than English.

X - Audit. This mark indicates that the student has registered to audit the course. No credit hours or quality points are awarded for this mark. Any course taken for audit may not be taken for credit. If, in the opinion of the instructor, a student has not attended and participated in a sufficient number of classes, the instructor will assign a W.

R - Retaken. An undergraduate student who receives a grade of D or F in a course taken under Option 1 at the University of Dayton may retake that course under Option 1 at the University of Dayton and remove the original D or F from the cumulative GPA. When a course has been retaken and the subsequent grade is higher than or equal to the previous grade, the previous grade will not count towards the student's cumulative GPA henceforth. There will be no retroactive adjustment to GPAs. The transcript will reflect this event with a notation of "same as" in the line containing the original grade. When a course in which a D was received has been retaken, and an F is earned, the initial D will be used in the student's cumulative GPA calculation, and the line containing the F will receive the notation of "same as". A student may have no more than 15 semester hours of "retaken" grades.

If a student retakes a course in which the topics vary, it must be demonstrated that the retaken course contains the same material as the original course in which the student received a D or F. Courses taken by students prior to the initiation of this policy, and before completion of an undergraduate degree, may be retaken within the guidelines of this policy.

Exceptions to this policy may be made by the dean (or the dean's designee) of the school or college in which the student is enrolled.

Addendum to Retake Policy: When a student retakes a course which he or she has taken more than once previously, the retaken course will serve to replace both previous grades (if it is the same as or higher than each). The number of "retaken hours" will be counted as the total hours for the two courses in which the grades are replaced; e.g., if a student retakes PSY 101 in which he or she had previously earned F two times, the new passing grade will replace both Fs, but will count as 6 credit hours taken instead of 3. This student will then be able to take up to 9 additional course grades.

EM - Examination. This mark indicates University of Dayton credit given to a student on the basis either of the Advanced Placement Program of the CEEB or of examinations taken prior to or after admission to the University. The required
level of achievement on these examinations is determined by the department in which the course is taught. This credit shall be assigned only on authorization of the registrar. No quality points are allowed. A student must be registered at the University of Dayton to obtain credit. EM credit is limited to 24 semester hours (exclusive of AP and CLEP General Examination credits).

NO GRADE CHANGE OF ANY KIND IS PERMITTED AFTER THIRTY DAYS FROM THE DATE LISTED ON THE GRADE REPORT.

The University reserves the right to change the grading system.

Grade-Point Averages

The SEMESTER GRADE-POINT AVERAGE is the total number of quality points divided by the number of semester credit hours carried by the student under Option 1.

The CUMULATIVE GRADE-POINT AVERAGE is the total number of cumulative quality points divided by the number of cumulative credit hours carried by the student under Option 1. If a course is repeated, the grade points for both the original grade and the new grade are computed. If a course is retaken (see R) and the subsequent grade is higher than or equal to the previous grade, the previous grade will not count towards the student's CGPA henceforth. Marks of I, K, N, P, S, W, X, NC, and EM are disregarded in the computation of the CGPA.

The CUMULATIVE ACADEMIC UNIT GRADE-POINT AVERAGE includes only those courses completed at the University of Dayton and required for the specific degree obtained and/or approved for inclusion by the student's school or college.
Academic Dishonesty

As an institution of higher learning, the University of Dayton expects its faculty and administration to be instrumental in creating an environment in which its students can develop personal integrity.

I. Definitions

Student academic dishonesty is defined as any attempt by the student to obtain, or to assist another student to obtain, a grade higher than honestly earned.

In addition to specific conditions stated by the course instructor, the following are defined as academic dishonesty: cheating; plagiarism; grade alteration; and deception to avoid meeting the stated course conditions.

A. Cheating: Cheating consists of any of the following:

For Examinations: Willfully copying or attempting to consult a notebook, textbook, or any other source of information not specifically authorized by the teacher, willfully aiding or receiving aid from another student during an examination or attempting to give or receive such aid; obtaining or attempting to obtain copies of the examination prior to the time the examination is given; or any other act which violates or attempts to violate the stated conditions of an examination.

For Assignments: When class assignments are such that students are expected to complete the assignment on their own, willfully copying all or part of another student's assignment or attempting to violate or violating any stated conditions of the assignment.

B. Plagiarism: plagiarism consists of any of the following:

Quoting directly from any source of material including other students' work and materials purchased from research consultants without appropriately citing the source and identifying the quoted material; knowingly citing an incorrect source; using ideas (i.e., material other than information that is common knowledge) from any source of material, including other students' work and materials purchased from research consultants without citing the source and identifying the borrowed material.

The instructor is expected to establish any additional guidelines for plagiarism and should make clear to the students their individual responsibilities on assignments.

C. Grade Alteration: Grade alteration consists of an act which dishonestly modifies a grade obtained for a class assignment, examination or for the course itself.

D. Deception: Deception is defined as any attempt to avoid meeting the stated course conditions, such as making false statements to avoid taking examinations at the scheduled times or to avoid turning in assignments at scheduled times.

II. Penalties and Procedures

The maximum penalty for a proven case of academic dishonesty is an F in the course. No provision can then be made for the student to receive a W. Under some circumstances, such as repeated offenses, theft, intimidation, or breaking and entering, additional penalties may be imposed by the student's dean. These penalties may include dismissal from the major, dismissal from the school or college, removal from honors programs, or dismissal from the University.
Academic Standing

The student's academic standing is determined by the cumulative grade-point average at the end of each term.

1. To be in good academic standing, a student must have a cumulative grade-point average of (a) at least 1.7 at the end of the first and second terms, (b) at least 1.8 at the end of the third term, (c) at least 1.9 at the end of the fourth term, and (d) at least 2.0 at the end of the fifth and succeeding terms. For part-time and transfer students, a block of 12 semester hours of credit is considered one term. A cumulative grade-point average of at least 2.0 is required for graduation.

2. A cumulative grade-point average below the one required will place the student on academic probation. The student's academic dean will notify the student of his or her probationary status. A student on probation must follow a restricted academic program not to exceed 15 semester hours.

3. It is the responsibility of any student on academic probation to complete a contract with the dean for the purpose of determining the nature and limitations of the student's future academic and extracurricular activities.

4. Students whose academic performance has seriously impaired their ability to succeed academically at the University of Dayton are subject to dismissal. A student who is subject to academic dismissal can be dismissed only by his or her academic dean, who authorizes the dismissal and notifies the student of his or her status. Students who are subject to dismissal include (a) those who fail to achieve good standing at the end of a term on probation and (b) those who have a term point average of less than 1.0, regardless of cumulative grade-point average.

5. The Registrar will post "Academic Dismissal" on the permanent record of any student who is dismissed.
Internal Transfer Policy

Any undergraduate student having completed one academic semester in good standing at the University of Dayton may initiate a request for Internal Transfer. The student desiring to change his/her major can initiate this process by contacting their advisor and submitting a formal transfer application prior to registration.

To be considered for Internal Transfer the student must meet the following criteria:

- **College of Arts & Sciences**
  - Cumulative GPA:
    - 1.7 end of first term
    - 1.7 end of second term
    - 1.8 end of third term
    - 1.9 end of fourth term
    - 2.0 thereafter

- **School of Business Administration**
  - Cumulative GPA of 2.5 and completion of a SBA application (available from the dean's office, MH 230). Please visit Transfer Students in Section VII for additional information.

- **School of Education and Allied Professions**
  - Cumulative GPA: 2.5 or better and for those seeking teacher licensure, proof must be submitted of satisfactory standardized testing scores. Please visit Degree Requirements in Section VIII for additional information.

- **School of Engineering**
  - Cumulative GPA:
    - 1.7 end of first term
    - 1.7 end of second term
    - 1.8 end of third term
    - 1.9 end of fourth term
    - 2.0 thereafter

Units will review applications for transfer and make decisions in a timely fashion with communication to the student, the appropriate units, and the Registrar. Please note: there are times when the student's desired transfer would not be recommended. This decision will be left to the judgment of the dean or his/her designated representative.

More complete information regarding Internal Transfer to the College or schools may be obtained in the respective dean's office.
Dean's List

At the conclusion of the Fall, Winter, and Summer terms, in both the college and the professional schools, any currently registered, degree-seeking undergraduate student completing a minimum of twelve semester hours with a grade point average of 3.50 or above is named to the Dean's List. For purposes of this list, the total hours completed during the multiple Summer sessions are treated as being a single term.

Dean's Recognition List

At the conclusion of the Fall, Winter, and Summer terms, in both the college and the professional schools, any currently registered, degree-seeking undergraduate student completing no less than six semester hours and not more than eleven and one-half semester hours with a grade point average of 3.50 or above is named to the Dean's Recognition List. For purposes of this list, the total hours completed during the multiple Summer sessions are treated as being a single term.
Honors

1. To graduate with honors, a student must have completed a minimum of 60 semester hours at the University of Dayton and have an academic degree program grade-point average at the University of Dayton of 3.50 or higher, based on a 4.00 scale. The academic degree program grade-point average includes all courses taken at the University of Dayton under grading Option 1 and accepted as graduation credits by the student's academic unit, i.e. school or college. Determination of a student's honors category is made on the basis of the student's academic record at the conclusion of the term preceding the student's last term at the University or on the basis of the student's academic record at the conclusion of his or her last term.

2. If a student qualifies for honors or moves into a higher category of honors on the basis of his or her academic degree program grade-point average, mention will be made at the commencement exercises, notation will be made on the transcript and permanent record, and an appropriate honors key will be awarded. Due to time constraints no adjustments/corrections can be made to the actual printed graduation program.

3. Honors status will be determined by the academic degree program grade-point average and will include only those courses completed at the University of Dayton. Students who transfer to the University of Dayton under the terms of an articulation agreement with a community college may be eligible for honors at graduation even if they have not completed the minimum of 60 semester hours at the University provided that they have met all terms of the articulation agreement.

4. The notation of honors is made in the commencement program, on the diploma, on the student's permanent record, and on the transcript, as follows:

   Cum Laude-if the academic degree program grade-point average is greater than or equal to 3.50 but less than 3.70

   Magna Cum Laude-if the academic degree program grade point average is greater than or equal to 3.70 but less than 3.90

   Summa Cum Laude-if the academic degree program grade-point average is greater than or equal to 3.90

5. Any exceptions to this procedure are the decision of the dean of the student's academic unit.
Commencement at the University of Dayton is formal recognition of students who are graduating from the University. Consequently, University policy limits participation in commencement to students who have completed all the requirements for their degree. Exceptions to this policy are granted only under the most extraordinary circumstances. Receiving an incomplete or failure in a course necessary for graduation or personal conflicts with scheduled commencements are, for example, not considered extraordinary circumstances.

Students wishing to appeal this policy can do so by submitting a written request to the Registrar. The final decision concerning any appeal is made by the Graduation Appeals Committee consisting of the Registrar, a faculty representative, and an undergraduate student selected by the Student Government Association. All appeals must be submitted at least two weeks before the graduation ceremony in question. If the student is declaring his candidacy for Graduation a #7 Form must be completed and turned into the Registrar's Office, located on the second floor of Albert Emanuel Hall. If a student is receiving two degrees, two separate #7 forms, one for each degree, must be completed. For further information visit the Registrar's website at http://www.udayton.edu/~registr.

Students completing their course work during the summer term will receive a diploma and their academic transcript will denote an August graduation date, but they will have to wait until December to participate in a graduation ceremony.
Class Attendance Policy

It is desirable for students to attend all classes. Listening to the lectures of instructors and being involved in classroom discussions should (1) provide guidelines and goals in the course of study, thus lending direction to the study activities of the student; (2) provide instances of the way of thinking and methodology employed by an academic discipline in formulating and solving problems; and (3) stimulate an awareness of and interest in the course topics beyond the level acquired by textbook reading. Because textbook material is generally beneath the level of the current state of knowledge, instructors acquaint the student with new ideas and integrate this material into the course topics.

Students are responsible for being aware of the proceedings and material covered in each class period. Students must attend all announced tests and submit assigned written work on the date set by the instructor; it is recommended that the instructor announce such tests and assignments at least a week in advance. The action taken as a consequence of missing a test or an assignment will be determined by the instructor and will be based on a consideration of the individual circumstances involved.

To assist first-year students in their transition to college responsibilities, it is felt that a policy of compulsory attendance is necessary; therefore, first-year students will be permitted only a limited number of absences. For first-year students, the allowable number of absences in the first term or in the second term will be equal to twice the meeting times a week (or four class days in any third-term session). A student exceeding this number will be referred to the student's dean for possible counseling and appropriate action. Any undergraduate student who has not accrued 30 semester hours of credit is considered a first-year student.

In addition to the first-year student policy, faculty may institute an attendance requirement. This may be done for any course (including seminars, laboratories, performance courses, clinical field-based courses, and the like) provided that the policy is approved by a faculty committee of the department and/or the department chair. If attendance is used as a grading component, the instructor is obligated to clarify his or her classroom policy regarding absences in writing in the syllabus provided during the first full week of the semester. Let it be noted that to insure accuracy of records, every student must be present at class during the first week of each term.
The Family Educational Rights and Privacy Act of 1974 (FERPA) is a federal law which states that an educational institution must establish a written institutional policy concerning the confidentiality of student education records and that students must be notified of this statement of policy and their rights under the legislation. In accordance with the Act, students and parents of dependent students at the University of Dayton have the following rights:

1. The right to inspect and review educational records covered by the Act or personally identifiable information contained therein
2. The right to challenge the contents of these records
3. The right to a formal hearing, if necessary, for a fair consideration of such a challenge
4. The right to place an explanatory note in the record in the event that a challenge of contents is unsuccessful
5. The right to control, with certain exceptions, the disclosure of the contents of the records
6. The right to be informed of the existence and availability of the institutional policy covering FERPA rights
7. The right to report violations of FERPA legislation to the Department of Education.

A complete policy statement on student records in accordance with the requirements of FERPA can be found in the student handbook, published by the Office of Student Development. Copies of the policy also are available at the following University offices: Vice President for Student Development and Dean of Students, Provost, and Registrar.
Transcripts

A transcript of the permanent academic record is a confidential document to be released in compliance with the regulations of the Family Educational Rights and Privacy Act of 1974 as amended. The Registrar will issue transcripts upon a request signed by the student. All transcripts so requested require payment in advance. For more information on "Other Charges," visit Section IV, Financial Information. One official copy will be mailed to each graduate approximately six weeks after graduation. For more information please visit: www.udayton.edu/registr
Awards

Special awards for exceptional scholastic achievement are given annually through the generosity of donors. To be eligible for any of these awards, a student must have a cumulative grade point average of at least 3.0. The awards:

Accounting - Award of Excellence to the Outstanding Senior in Accounting-donated by Jerome E. Westendorf, '43, and Warren A. Kappeler, '41.

Accounting - Award of Merit in Recognition of Outstanding Achievement-donated by The Ohio Society of Certified Public Accountants, Dayton Chapter.

Accounting - The Accounting Career Award to a Student Exhibiting Great Potential in the Accounting Profession-donated by The Institute of Management Accountants, Dayton Chapter.

Accounting - The Clark-Eley-Fioriti Award for Outstanding Service to the Department of Accounting-donated by the Alumni and Faculty of the Department of Accounting.

Anthropology - The Margaret Mary Emonds Huth Memorial Award of Excellence to the Outstanding Senior in Anthropology-donated by Dr. Edward A. Huth.

Arts and Sciences - The Dean Leonard A. Mann, S.M., Award of Excellence to the Outstanding Senior in the College of Arts and Sciences-donated by Joseph Zusman, '65.


Athletics - The Charles R. Kendall, '29, Memorial Award of Excellence for Achievement in Academic and Athletic Effort-donated by Mrs. Charles R. Kendall and friends.

Athletics - The John L. Macbeth Memorial Award to the Outstanding Scholar-Athlete in Football and Basketball. The recipient must have completed five or more terms and won a varsity letter.

Athletics - The Ann E. Meyers Award of Excellence for Achievement in Academic and Athletic Effort in Women's Basketball and Volleyball.

Biology - The P.K. Bajpai Undergraduate Research Award to the Undergraduate Student who Best Represents the Spirit of Undergraduate Research in Biology.

Biology - The John J. Comer Biomedical Undergraduate Research Award to the Undergraduate Student who Best Demonstrated Research Excellence in 'Biomedical Sciences' as a Biology Major.

Biology - The John J. Comer Ecological Undergraduate Research Award to the Undergraduate Student who Best Demonstrated Research Excellence in 'Ecology' as a Biology Major.

Biology - The Learn, Lead and Serve Undergraduate Award of Excellence to the Biology Undergraduate Student who Completed an Outstanding Experiential Learning Project, which included both Leadership and Service.

Biology - The John E. Dlugos, Jr., Memorial Award of Excellence to the Outstanding Senior Majoring in Biology-donated by Mr. and Mrs. John E. Dlugos.

Biology - The Brother Russell A. Joly, S.M., Award of Excellence to the Student who Best Combines Excellence in Biology and Genuine Appreciation of Nature.

http://bulletin.udayton.edu/content.ud?v=6&p=1204&c=1231
Business Administration - The Miriam Rosenthal Award of Excellence to a Graduating Senior in the School of Business Administration-donated by Dean William J. Hoben.

Business Administration - The Mark T. Schneider Award to a Senior in the School of Business Administration who has Combined Academic Excellence with Service to the University and the Community-donated by family and friends in his memory.

Campus Ministry - The Nancy Bramlage Award Presented by Campus Ministry's Center for Social Concern to a Deserving Student or Student Group that has Most Effectively used Nonviolent Direct Action to Work for Change.

Campus Ministry - The Marianist Award for Voluntary Service to a Graduating Senior who has Earned Distinction Through Voluntary Service to the Community-donated by the Marianists of the University of Dayton.

Campus Ministry - The Brother Wattle Campus Ministry Award: "An Award of Appreciation for Service to Campus Ministry."

Chemical and Materials Engineering - The Victor Emanuel, '15, Award of Excellence to the Outstanding Senior in Chemical Engineering-sponsored by the University of Dayton Alumni Association since 1962.

Chemical and Materials Engineering - The Raymond L. Fitz, Sr., Memorial Award of Excellence in Chemical Engineering to the Outstanding Sophomore in Chemical Engineering.

Chemical and Materials Engineering - The Edmund J. Rolinski Memorial Award of Excellence in Leadership and Service.

Chemical and Materials Engineering - The Robert G. Schenck Memorial Award of Excellence to the Outstanding Junior in Chemical Engineering-donated by Stanley L. Lopata.

Chemistry - The American Chemical Society Award: Patterson College Chemistry Award.

Chemistry - The American Institute of Chemists' Award.

Chemistry - The CRC PRESS Freshman Chemistry Achievement Award to a Deserving First-Year Student Majoring in Chemistry.

Chemistry - The Brother George J. Geisler, S.M., Award of Excellence to the Outstanding Student in Chemistry-donated by Joseph Poelking, '32.

Chemistry - The Arlo D. Harris Assistance Fund to a Deserving First-Year Student Majoring in Chemistry.

Chemistry - The Bernard J. Katchman Memorial Scholarship to an Entering First-Year Student Majoring in Chemistry.

Chemistry - The Brother John J. Lucier, S.M., Award of Excellence to the Outstanding Junior Majoring in Chemistry-donated by a friend.

Chemistry - The Carl I. Michaelis Scholarship Award to a Deserving Junior or Senior Majoring in Chemistry.

Chemistry - The Polymer Education Committee Award for Outstanding Performance in Organic Chemistry.

Chemistry - The Philip Zaidain Memorial Award to a Deserving Student Majoring in Chemistry.


Civil and Environmental Engineering and Engineering Mechanics - The Harry F. Finke, '02, Award of Excellence to the Outstanding Senior in Civil Engineering-sponsored by the University of Dayton Alumni Association since 1962.

Communication - The Bette Rogge Morse Award to the Outstanding Senior Woman in Communication.
Communication - The Faculty Award for Academic Excellence to the Senior with the Highest Cumulative and Major Grade Point Averages-donated by the Faculty of the Department of Communication.

Communication - The Dr. Florence I. Wolff Achievement Award for Outstanding Contributions in Academic, Extracurricular and Community Service Activities.

Communication-Broadcasting - The Omar Williams Award of Excellence to the Outstanding Student in Broadcasting-donated by the University of Dayton.

Communication-Debating - The Mary Elizabeth Jones Memorial Award of Excellence to an Outstanding Debator-donated by Dr. D. G. Reilly.

Communication-Journalism - The Ritter Collett Award of Excellence to the Outstanding Senior in Journalism. This is awarded annually to the student who best demonstrates in his/her person and writings the qualities of Mr. Collett that the University hopes will serve as an inspiration to the Journalism students.

Communication-Journalism - The Brother George F. Kohles, S.M., Award of Excellence to the Outstanding Senior in Speech Arts-donated by Reverend Vincent R. Vasey, S.M.

Communication Management - The Ellen M. Murphy Award of Excellence to the Outstanding Senior in Communication Management.

Computer Science - The Addison-Wesley Senior Book Award for Excellence in Computer Science; Computer Information Systems-donated by the Addison-Wesley Publishing Company.

Computer Science - The Alumni Award of Excellence in the Senior Class.

Computer Science - Award for Outstanding Service to the Department of Computer Science.

Computer Science - The Chair's Award for Excellence in Computer Science.

Computer Science - The GKM Systems Award for Innovative Programming.

Continuing Education - The Nora Duffy Award to a Reentry Student who has Overcome Significant Obstacles in Order to Complete a College Degree.

Cooperative Education - Award of Excellence to the Outstanding Cooperative Education Student in Business Administration-sponsored by the Mead Corporation Foundation.

Cooperative Education - Award of Excellence to the Outstanding Cooperative Education Student in Computer Science-Computer Information Systems-sponsored by the Marathon Oil Foundation.

Cooperative Education - Award of Excellence to the Outstanding Cooperative Education Student in Engineering-sponsored by the Dayton Power and Light Company.

Cooperative Education - Award of Excellence to the Outstanding Cooperative Education Student in Engineering Technology-sponsored by Earl C. Iselin, Jr., in honor of his father.

Criminal Justice - The Sheriff "Beno" Keiter Memorial Scholarship Award to the Outstanding Junior or Senior in Criminal Justice-donated by friends of "Beno" Keiter.

Economics - The Dr. E. B. O'Leary Award of Excellence to the Outstanding Senior Majoring in Economics-donated by Bank One.


Electrical Engineering - The Mary C. Millette Endowment Award for the Outstanding Senior Electrical Engineering Student in Memory of Mary C. Millette.


Electronic Engineering Technology - The Richard R. Hazen Award of Excellence for the Outstanding Graduate of the Electronic Engineering Technology Program -donated by the Alumni and friends of the Department.

Elementary Education - The George A. Pflaum, '25, Award of Excellence to the Outstanding Students in Early Childhood and Middle Childhood Education -donated by George A. Pflaum, Jr.

Engineering/Humanities - The James L. Heft, S.M., Award of Excellence to the Graduating Senior who Demonstrates a High Degree of Integration of these Different Fields of Knowledge: Humanities and Engineering-donated by Dr. Rocco M. Donatelli.

Engineering Technology - The L. Duke Golden Award of Excellence to the Outstanding Senior in Engineering Technology-donated by the Gamma Beta Chapter of Tau Alpha Pi Honor Society.

English - The Patricia B. Labadie Award for Excellence in Composition.

English - The Brother Thomas P. Price, S.M., Award of Excellence to the Outstanding Senior in English-donated by the U.D. Mothers' Club.

English - The Alex G. Tuss Service Award to the Graduating Senior with an Outstanding Record of Service to the Department and the University-donated by the Tuss Family.

English Education - The Dr. Harry E. Hand Memorial Award of Excellence-donated by the Faculty of the Department of English and the School of Education.

Environmental Biology - The Environmental Biology Award of Excellence to the Outstanding Environmental Biology Major who Excels in All Areas of Academic Scholarship and Overall Service.

Environmental Biology - The Environmental Biology Internship Achievement Award of Excellence to the Environmental Biology Major who has Demonstrated Significant Achievement while Pursuing Practical Experience through the Internship Program.

Finance - Award of Excellence to the Outstanding Senior Majoring in Finance.

Finance - The Douglas R. Scott "Best Efforts Award" to the Finance Major Deemed to have Worked the Hardest Both In and Out of the Classroom-donated by Douglas R. Scott.

Finance - The Davis Center for Portfolio Management Excellence in Leadership Award to the Outstanding Senior on the Davis Center for Portfolio Management Team.

Finance - The Flyer Investments Excellence in Leadership Award to the Outstanding Student on the Vertically Integrated Investment Program (Vi²P) Flyer Investment Portfolio Management Team.

General Excellence - The Mary M. Shay Award of Excellence in Both Academic and Extracurricular Activities (Seniors only)-donated by the Poelking Family.

Geology - The George H. Springer Scholarship to the Outstanding Senior in the Geology Department-donated by Alumni of the Department.

Health and Sport Science - The Thomas J. Frericks Award of Excellence to the Outstanding Senior in Sport Management-donated by the Faculty of the School of Education.
Health and Sport Science - The James M. Landis Memorial Award of Excellence for the Outstanding Health and Sport Science Senior in Science Core Courses.

Health and Sport Science - The James B. LaVanche Award of Excellence to the Outstanding Scholar-Athlete Graduating in the Department of Health and Sport Science - donated by the Faculty and Alumni of the Department.

Health and Sport Science - The John L. Macbeth Memorial Award of Excellence to the Outstanding Student in Health and Sport Science - donated by Mrs. John L. Macbeth.

Health and Sport Science - The Reverend George J. Rennaker Award of Excellence for Outstanding Achievement in the School of Education.

Health and Sport Science - The Elizabeth L. Schroeder Award of Excellence to the Outstanding Senior in the Food and Nutrition Program.

History - The Caroline Beauregard Award of Excellence to the Outstanding Junior Majoring in History - donated by family and friends in her memory.

History - The Dr. Samuel E. Flook Award of Excellence to the Outstanding Senior Majoring in History - donated by Dr. Samuel E. Flook.

History - The Betty Ann Perkins Award for Excellence in Women's and Family History - donated by her family.

History - The Steiner-Beauregard Phi Alpha Theta Service Award for Significant Service Promoting the Activities of the Delta Eta Chapter (Delta Eta Chapter Members only) - donated by Dr. Rocco M. Donatelli.

History - The Dr. George Ruppel, S.M., Award of Excellence in Historical Research.

Humanities - Award of Excellence-Alumni Chair in Humanities Award for Students Writing in the Humanities Base Essay Contest.

Humanities - The Rocco M. Donatelli Award to the Humanities Senior with the Strongest Quantitative and Qualitative Record in Elective Science Courses.

Industrial Engineering Technology - The James L. McGraw Award to the Outstanding Graduate of the Industrial Engineering Technology Program - donated by the Dayton Chapter of The Institute of Industrial Engineers.

Industrial Engineering Technology - The Raymond B. Puckett Memorial Award to the Outstanding Junior in Industrial Engineering Technology.

Languages - The Brother John R. Perz, S.M., Award of Excellence to the Outstanding Senior in Modern Languages.

Languages-French - The Brother George J. McKenzie, S.M., Award of Excellence to the Outstanding Senior in French - donated by a friend.

Languages-Spanish - The Dr. James M. Ferrigno Award of Excellence to the Outstanding Senior in Spanish - donated by Enrique Romaguera and Mary A. Ferrigno.

Library - The Brother Frank Ruhiman, S.M., Award of Excellence for Literary Achievement.


Management - The Management Award for Excellence, Sponsored by The Reynolds and Reynolds Company and The Standard Register Company, Presented to the Graduating Senior in Management for Outstanding Academic Achievement and Intellectual Contribution.

Management - The Wall Street Journal Award for General Management Presented to the Graduating Senior Considered to have the Greatest Potential for General Management Responsibilities - sponsored by Dow Jones and Company, Inc.

Management and Marketing - The Management/Marketing Department Award for Perseverance Presented to the Graduating Senior Majoring in either Management or Marketing who has Displayed the Most Initiative and
Perseverance in Pursuing an Undergraduate Education-sponsored by the Faculty of the Management and Marketing Department.

Management Information Systems - The Management Information Systems Scholarship Award to a Graduating Senior in MIS for Outstanding Academic Achievement.

Management Information Systems - The Management Information Systems Outstanding Student Award to a Graduating Senior in MIS for Outstanding Contributions to the MIS Program.

Management Information Systems - The Management Information Systems Design Project Award to the Team Producing the Best Senior Year MIS Project.

Manufacturing Engineering Technology - The Dayton Chapter, Society of Manufacturing Engineers Award of Excellence for Manufacturing Engineering Technology Achievement.

Manufacturing Engineering Technology - The Dayton Chapter, Society of Manufacturing Engineers Award of Excellence to the Outstanding Graduating Senior in Manufacturing Engineering Technology.

Marketing - The Marketing Award of Excellence Presented to the Graduating Senior in Marketing for Outstanding Academic Achievement and Intellectual Contributions.

Marketing - The Marketing Career Award Presented to the Graduating Senior Majoring in Marketing who Exhibits the Greatest Potential in Marketing.

Marketing - The Marketing Service Award Presented to the Graduating Senior Majoring in Marketing who Embodies the Principles of Learn, Lead and Serve.

Mathematics - The Faculty Award of Excellence in Mathematics.

Mathematics - The Pi Mu Epsilon Award of Excellence in the Sophomore Class.

Mathematics Education - The Brother Joseph W. Stander, S.M., Award of Excellence to a Graduating Senior in the Teacher Licensure Program with a Principal Teaching Field in Mathematics.

Mechanical and Aerospace Engineering - The Class of 1902 Award of Excellence for Outstanding Mechanical Engineering Achievement - donated by Michael J. Gibbons, '02, in memory of Warner H. Kiefaber, '05.

Mechanical and Aerospace Engineering - The Professor Henry Chuang Award for Excellence in Energy Conservation and Waste Management.

Mechanical and Aerospace Engineering - The Bernard F. Hollenkamp, '39, Memorial Award of Excellence to the Outstanding Senior in Mechanical Engineering - donated by Louise A. and Mrs. Lucille Hollenkamp.

Mechanical and Aerospace Engineering - The Martin C. Kuntz, '12, Award of Excellence to the Outstanding Junior in Mechanical Engineering - sponsored by the University of Dayton Alumni Association since 1962.

Mechanical and Aerospace Engineering - The Brother Andrew R. Weber, S.M., Award of Excellence for Outstanding Service and Achievement in Mechanical Engineering.

Mechanical Engineering Technology - The Dayton Chapter, Society of Manufacturing Engineers Award of Excellence for Mechanical Engineering Technology Achievement.

Mechanical Engineering Technology - The Jesse H. Wilder Award of Excellence to the Outstanding Graduating Senior in Mechanical Engineering Technology - sponsored by the Dayton Chapter, Society of Manufacturing Engineers.

Military Science - The Department of the Army Award. The Superior Cadet Award, provided by the Department of the Army, presented to the Outstanding Cadet of each academic year.

Military Science - The Brian J. Bentz Memorial Scholarship Award Presented to the Outstanding Junior ROTC Cadet who Exemplifies the Dedication and Commitment for Further Study in Military Science - donated by his family and friends.

Military Science - The Lieutenant Robert M. Wallace, '65, Memorial Award to the Outstanding Junior ROTC Scholarship Cadet - donated by his family and friends.
Music - The Brother Joseph J. Mervar, S.M., Award of Excellence to the Outstanding Student Majoring in Music.

Music - The Department of Music Senior Award for the Outstanding Collaborative Pianist.

Music - The Department of Music Senior Award for Outstanding Contribution to the University Bands.

Music - The Department of Music Senior Award for Outstanding Contribution to the University Orchestra.

Music - The Department of Music Senior Award for Outstanding Contribution to the University Vocal Ensembles.

Music - The Department of Music Service Award.

Music - The Sigma Alpha Iota College Honor Award for Musicianship, Scholarship, and General Contributions to the College Chapter.

Music - The Sigma Alpha Iota Professional Music Fraternity Scholastic Award to the Chapter's Graduating Senior who has Attained the Highest Scholastic Rating.

Music - The University Band Spirit Award.

Operations Management - The Operations Management Outstanding Scholarship Award to a Graduating Senior in OPS for Academic Excellence.

Operations Management - The Operations Management Professional Service Award to a Graduating Senior in OPS for Outstanding Contributions to the OPS Program.

Operations Management - The Operations Management Outstanding OM Senior Project Award to the Team Producing the Best Senior Year OPS Project.

Philosophy - Award of Excellence to the Outstanding Seniors in Philosophy-donated by Reverend Charles Polichek.

Philosophy - The Richard R. Baker Award for Excellence in Philosophy to the Graduating Student who has Earned Distinction in the Study of Philosophy Through Commitment to Philosophical Inquiry and Assisting Other Undergraduate Students in Their Pursuit of Philosophical Studies.

Philosophy - The Reverend Charles C. Bloemer, S.M., Award of Excellence to the Outstanding Junior Majoring in Philosophy-donated by a friend.

Philosophy - The Raymond M. Herbenick Award for Excellence in Interdisciplinary Integration to a Student Completing the CORE Program-donated by the Department of Philosophy Faculty.

Physics - The Caesar Castro Award of Excellence to a Sophomore for Outstanding Scholarship in the General Physics Lecture and Laboratory Sequence-donated in memory of Caesar Castro by Mrs. C. C. Castro and the Department of Physics.

Physics - The Sigma Pi Sigma Award of Merit to a Senior in Recognition of Outstanding Academic Achievement and Involvement in Physics-sponsored by the Department of Physics and the Sigma Pi Sigma Honor Society of The Society of Physics Students.

Political Science - The Brother Albert H. Rose, S.M., Award of Excellence to the Outstanding Senior in Political Science-donated by Joseph Zusman, '65.

Political Science - The Eugene W. Stenger, '30, Memorial Award of Excellence to the Outstanding Junior in Political Science-donated by Mrs. Eugene W. Stenger.

Premedicine - The Brother Francis John Molz Memorial Award to the Outstanding Senior in Premedicine. This is awarded annually to the student who best demonstrates the qualities of unselfishness, community service, and academic achievement-sponsored by Alpha Epsilon Delta.

Premedicine - The Montgomery County Medical Society Award to the Outstanding Senior in the Premedical Curriculum.
Premedicine - The Joseph E. Scherger, MD, MPH Leadership in Medicine Award to a Graduating Premedical Student who has Demonstrated Leadership toward Improving the Health of the Public through Better Health Care.

Psychology - The Kenneth J. Kuntz Award for Outstanding Service-donated by the Department of Psychology Faculty.


Religious Studies - The William Joseph Chaminade Award of Excellence, in Memory of Mr. and Mrs. George W. Dickson, to the Outstanding Student in Theology-donated by Reverend John Dickson, S.M., '36.

Religious Studies - The Monsignor J. Dean McFarland Award of Excellence to the Outstanding Junior Majoring in Religious Studies.

School of Education - The William A. Beitzel Award for the Outstanding Student in Intervention Specialist Education-donated by Dean Emeritus Ellis A. Joseph.

School of Education - The Raymond and Beulah Horn Award of Excellence for an Outstanding Student in the Area of Intervention Specialist Education-donated by Dean Emeritus Ellis A. Joseph.

School of Education - The Daniel L. Leary Award for the Outstanding Research and Development Activity by a Student Seeking Teacher Licensure in the School of Education-donated by Dean Emeritus Ellis A. Joseph.

School of Education - The Frank and Lois New Award for Outstanding Achievement to a Graduating Senior in the Teacher Education Program with a Principal Teaching Field in Intervention Specialist Education.

School of Education - The Reverend George J. Renneker, S.M., Award of Excellence for Outstanding Achievement in Teacher Education.

Secondary Education - The Brother Louis J. Faerber, S.M., Award of Excellence to the Outstanding Student in Adolescent to Young Adult Education-donated by the University of Dayton Mothers' Club.


Sociology - The Dr. Edward A. Huth Silver Anniversary Award of Excellence to the Outstanding Student in Sociology-donated by Joseph Zusman, '65.

Sociology - The Dr. Martin Luther King Memorial Award in Human Relations for Excellence in Scholarship, Christian Leadership, and the Advancement of Brotherhood and Sisterhood-donated by Dr. Edward A. Huth.

Sociology - The Reverend Andrew L. Seebold Award of Excellence to the Outstanding Senior in Sociology.

Theatre - The Dr. "G." Award for Outstanding Commitment to Mainstage Theatre Recognizing a Graduating Senior who has Demonstrated a Willingness to Involve Himself/Herself in the Wide Spectrum of Theatrical Production on the Boll Theatre Mainstage.

University Advancement - Award of Excellence for Contribution of Service to the Community.

Visual Arts-Fine Arts - The Mary Ann Dunsky Award to the Outstanding Senior in Studio Art.

Visual Arts-Fine Arts - The Bela Horvath Award for Excellence in Representational Art.

Women's Studies - The Susan R. Hermes Award for Excellence in Women's Studies - donated by Drs. Jane S. Zembaty and Patricia A. Johnson.
College of Arts and Sciences

Mary E. Morton, Dean
Mary Brown, Associate Dean
F. Thomas Eggemeier, Associate Dean
Patricia A. Johnson, Associate Dean
Linda J. Snyder, Associate Dean
Rae Ellen Huff, Assistant Dean
Sam F. Johnson, Assistant Dean

The College of Arts and Sciences is a distinctive learning community that forms the vital center of the University of Dayton. In the finest tradition of liberal education, the College is committed to excellence in the discovery, integration, dissemination, and application of knowledge. The College delivers the University General Education Program and helps students develop their competencies in written and oral communication, quantitative reasoning, and information literacy. Academic programs provide instruction in critical thinking and expression, social and cultural criticism, computation, scientific reasoning, the creative and performing arts, historical analysis, and religious and moral awareness. The College of Arts and Sciences takes as its mission the Marianist principle of educating the whole person and enabling all members of our learning community to fulfill their potential.

The faculty of the College of Arts and Sciences demonstrate connected learning and scholarship by integrating teaching, research, and service. They engage students from across the University in this process through traditional and innovative approaches to learning. The faculty understand that the principles of liberal education emerge not only from the classroom, studio, and laboratory, but also from the many resources the students have within their reach: advisement, mentoring; the campus ministry; social and professional clubs and societies; campus media and publications; fine arts events; and membership on departmental and campus-wide committees where students gain experience in working with others and contribute to the wider University community. Taken together, these dimensions of liberal education form the basis for lifelong intellectual, professional, and personal growth.

The College of Arts and Sciences affirms its commitment to the Catholic and Marianist tradition. In humanities and social science programs, in the physical and life sciences, in the creative and performing arts, the College strives to ensure that its graduates are distinguished by their discernment and intellectual rigor, their broad base of learning, and their sense of moral responsibility. And through their participation in a vital learning community, the College ensures the graduates will be distinguished by their appreciation and respect for diversity, their commitment to service, and their ability to affect positively individual lives and the common good.
Academic Programs

For detailed information on specific majors and minors, please visit the Academic Information section of the Bulletin.

The major is defined as a block of courses totaling at least 24 semester hours of upper-level work in a single discipline. Transfer students are required to take a minimum of 12 upper-level semester hours in the major at the University of Dayton. Some departments may have additional requirements for transfer students. These additional requirements are defined specifically in the departmental listings.

Single-discipline and interdisciplinary minors are defined in the departmental listings. Transfer students must take a minimum of 6 upper-level semester hours in the minor at the University of Dayton. Some departments may have additional requirements for transfer students. These additional requirements are defined specifically in the departmental listings.

The Bachelor of Arts is offered in the following areas:

- American Studies
- Art History
- Chemistry
- Communication
- Criminal Justice Studies
- Economics
- English
- Fine Arts
- French

- German
- History
- International Studies
- Languages
- Mathematics
- Music
- Philosophy
- Photography
- Political Science
- Psychology
- Religious Studies
- Sociology
- Spanish
- Theatre
- Visual Communication
- Design
- Women's Studies

* The philosophy major program is also offered in India in conjunction with the Marist.

The Bachelor of Science is offered in the following areas:

- Applied Mathematical Economics
- Biochemistry
- Biology
- Chemistry
- Computer Information Systems
- Computer Science
- Environmental Biology
- Environmental Geology
- Geology
- Mathematics
- Physical Science
- Physics
- Physics-Comp. Sci.
- Predentistry
- Premedicine
- Psychology
- Visual Communication Design
- Design
- Women's Studies

Other programs leading to the bachelor's degree:

- Art Education (B.F.A.)
- Fine Arts (B.F.A.)
- General Studies (B.G.S.)
- Music Composition (B.Mus.)
- Music Education (B.Mus.)
- Music Performance (B.Mus.)
- Music Therapy (B.Mus.)
- Photography (B.F.A.)

Established Interdisciplinary Majors

American Studies, Criminal Justice Studies, International Studies, Premedicine-Predentistry, and Women's Studies are present examples of established interdisciplinary concentrations. Such programs are established by interdisciplinary committees and administered by the program directors.

Individually Designed Interdisciplinary Majors

Students demonstrating extraordinary interest, special skills or needs, and sound academic status may initiate individually designed majors. Students carry
the responsibility to find a faculty mentor or advisor for such majors. All University and College requirements for the Bachelor of Arts or Bachelor of Science degree must be fulfilled. The degree received will be a Bachelor of Arts or Science in Interdisciplinary Studies. Candidacy for the Bachelor of Arts or Science in Interdisciplinary Studies must be declared no later than the last semester of the junior year. Long-range plans for such majors must be submitted to the appropriate chairpersons and the dean for final approval. Plans may be altered with appropriate supporting rationale and the approval of the chairperson and dean.
Foreign Language Entrance Requirement

Any student admitted to the College of Arts and Sciences must have had two years of high school study of a single foreign language or make up the deficit at the University. The deficit may be made up by successful completion of one of the following courses or the equivalent: FRN 102 or 121; GER 102 or 121; LAT 102 or 121; SPN 102 or 121; ITA 141; RUS 141.

Proficiency in a Foreign Language

The College of Arts and Sciences strongly encourages its students to acquire the highest level of foreign language proficiency. Students may show proficiency by demonstration of basic practical communicative competence in a foreign language. Proficiency for modern languages includes the following four skills:

- Listening: comprehension of main idea and some supporting detail in passages of up to 250 words of everyday speech on familiar topics in a context that provides significant support for the message.
- Reading: comprehension of main idea and supporting detail in contextualized written passages of up to 600 words in which a generally familiar, everyday topic is discussed.
- Speaking: ability to indicate interests and needs, ask and answer questions, communicate personal information, and obtain essential services. Speech is sufficiently accurate to be understood by native speakers.
- Writing: ability to write messages and simple descriptions on familiar topics, to provide biographical information, and to express interests and preferences. Native speakers can understand the message with little difficulty.

Students entering the University have the opportunity to demonstrate the defined levels of proficiency by passing a University placement/proficiency examination. Any student who has not achieved proficiency as determined by this examination upon entry can choose from the following options to reach proficiency:

- course work at the University of Dayton
- course work elsewhere
- an individual study program
- study abroad
- an immersion experience

At the conclusion of one of these options, the student must pass the proficiency examination to satisfy the Foreign Language option within the Humanities and Fine Arts component of the Liberal Studies Curriculum (see General Requirements for the B.A. Degree.) The department of languages offers the following possible sequences of foreign language courses:

Beginner sequence: For students who have never studied the language previously or who demonstrate no functional ability: 101-102-141 (9 sem. hrs.) in French, German, Latin, and Spanish; 101-141 (8 sem. hrs.) in Italian and Russian.

Intensive beginner sequence: For experienced language learners who wish to learn a new language: 111-141 (9 sem. hrs.) available only in French, German and Spanish.

Accelerated sequence: For students with previous language study or experience who demonstrate some functional ability on the placement/proficiency examination: 121-141 (7 sem. hrs.) available in French, German, Latin and Spanish.
Capstone course: For students with significant language study or experience:
(3 sem. hrs.) available in all languages.

Students choosing to complete the Liberal Studies Curriculum using Latin as their language will be required to demonstrate proficiency in reading and translation only.

Students whose first language is not English demonstrate foreign language proficiency by satisfying the University General Competencies requirements in writing and oral communication. These Students may satisfy the Foreign Language option in the Humanities and Fine Arts components of the Liberal Studies Curriculum for the B. A. degree by demonstrating proficiency in another foreign language or by taking courses in the humanities and/or arts areas.
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General Requirements for all Bachelor of Arts Programs

A minimum of 124 semester hours of approved coursework must be presented for the B.A. At least 48 semester hours must be completed at the 300-400 level. For limitations on credit and restrictions on courses, consult the chairperson or the dean. No more than 45 hours of the minimum 124 hours may be completed in a student's major discipline.

Introduction to the University

In the first semester, students take a course that introduces them to the University and to their major field of study. Undeclared students take specific sections of this course.

Major Concentration

Most major programs require between 30 and 45 semester hours. For department or program requirements, consult program schedules or the department chairperson or program director.

Liberal Studies Curriculum

Every student will complete the Liberal Studies Curriculum. This Curriculum provides students with a breadth of study and experiences in the humanities, the creative and performing arts, the social sciences, and the natural sciences. It complements specialized study in a major, presupposes the University General Competencies Requirements, and ensures completion of the Humanities Base and a Thematic Cluster through completion of the General Education Requirements. Where appropriate, credits in the Liberal Studies Curriculum may apply to other requirements but no more than six hours may be in the departmental major concentration. The Liberal Studies Curriculum includes:

Philosophy and Religious Studies: Students complete 12 semester hours including a Humanities Base course in philosophy, a Humanities Base course in religious studies and two additional General Education approved courses in philosophy and/or religious studies.1

History: Students complete 6 semester hours including a Humanities Base course and one additional General Education approved course in historical study.1

English or Foreign Language Literature: Students complete 3 semester hours in English literature or foreign language literature selected from a list of approved courses.2

Creative and Performing Arts: Students complete 3 semester hours in theory, appreciation, or history of visual arts, music, or theater selected from a list of approved courses; or complete 3 semester hours in production and performance selected from a list of approved courses.2

Foreign Language and/or Additional Arts and/or Humanities: Students may choose to demonstrate proficiency by examination of basic practical communication proficiency in one foreign language.

Students who meet language proficiency without taking College courses in language must complete at least 3 additional semester hours of study in the arts and/or humanities beyond basic skills. Students who demonstrate language proficiency by taking 3 to 9 semester hours of language study take no additional hours in the arts and humanities.

Students who choose not to demonstrate language proficiency select 8-9 semester hours in the arts and/or humanities beyond basic skills including courses in any of the preceding categories or any other arts or humanities area,
### Summary of Requirements for the B.A.

<table>
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<th>Major</th>
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<td>Introduction to the University</td>
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<td>Electives to total 124 hours</td>
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</table>
General Requirements for all Bachelor of Science Programs

A minimum of 120 semester hours of approved coursework must be presented for the B.S. For limitations on credit and restrictions on courses, consult the chairperson or the dean. For departmental or program requirements, consult program schedules or the department chairperson or program director.

Sem. Hrs.

Major Concentration (with at least 24 semester hours at 300-400 level).

30-60

Breadth Requirement (See Distribution Table below.)

41-50

General Education Requirements: These courses may also be counted for other requirements where applicable. (See Chapter V.)

30

Program Requirements and General Electives: Electives should be approved by the chairperson or dean since some restrictions exist.

10-40

Distribution Table for Breadth Requirements

Courses taken to fulfill the breadth requirement should be external to the major concentration. Students electing courses in any department should be aware that some introductory or background knowledge may be expected of them even when no specific prerequisite course is listed.

Sem. Hrs.

Natural Sciences: Selected from Biology, Chemistry, Geology, and Physics courses with accompanying laboratories.

8

Mathematics, Computer Science: At least 3 semester hours must be in Mathematics, the course(s) to be determined by placement and major program.

6

Social and Behavioral Sciences: Anthropology, Economics, Political Science, Psychology, Sociology. Up to 3 of the 6 semester hours of social and behavioral sciences may, with the approval of the chairperson of the major department or the director of the program, be taken in applied social and professional studies: Criminal Justice Studies, Education, Human Ecology, Management.

6
Degree Requirements

To be awarded the bachelor's degree by the College of Arts and Sciences, it is necessary to complete all the requirements listed for one of the academic programs offered by the College. A maximum of four semester hours of general activities courses, a maximum of two semester hours of physical education activities courses, a maximum of ten semester hours of MIL courses, and a maximum of six hours of applied courses may be counted in the semester hours required for the degree. The final 30 semester hours must be earned at the University of Dayton. Furthermore, a minimum of 12 semester hours of course work at the 300 and 400 level in the major must be completed at the University.
Graduation Requirements

1. It is the responsibility of the student to file his or her Candidate for Graduation form.
2. For graduation, it is necessary that the student successfully complete an approved program of studies in the College; that the standard grade point average be at least 2.0 in the major field, in the minor field, and in the total program. In the Bachelor of Fine Arts and Bachelor of Music Programs, a 2.0 cumulative grade point average is required in the nonprofessional courses as well as in the professional courses.
Internship Program

The Internship Program is an educational work experience with an outside agency, in which a full-time student registers for on-the-job work performed without direct supervision by academic personnel. Such work can be performed in a variety of areas; however, the general purpose of all internships is to serve as transition between the world of study and the world of work.

Normally a departmental internship director or another designated faculty member will make all contacts with prospective agencies for placing students as interns. While students themselves may initiate contacts at possible sites, all sites must be ruled acceptable by the director before an internship may begin.

In order to accomplish the general purpose of an internship, the student must adhere to the following requirements:

- To be eligible for an internship, a student must be in good standing at the University of Dayton and have successfully completed course work in areas appropriate to the internship sought.
- An intern may receive no more than six semester hours of credit in any semester for internship.
- No more than twelve semester hours of work experience credit in any kind of internship or work experience program can be accepted toward a baccalaureate degree.
- The student intern will submit a daily log and a written report to the internship director at the conclusion of the internship.

Other procedures and requirements in addition to those mandated by the College may be imposed by departments for individual programs to meet the specific nature of a given internship.

Interested students should see the internship directors in their respective departments for further details.
Mini-Courses

Mini-courses are special, short-term, interdisciplinary credit courses developed by University faculty, (or sometimes by students with the advice and consent of a faculty member), to meet specific, highly current needs or interests not covered in the regular curricula. They are free of charge to all full-time students, even if the course puts them over the full-time limit, and are open to part-time and non-UD students for credit or audit. The typical mini-course carries one semester hour of credit, or fifteen class hours. Classes can be in various sequences, extending over several weeks or concentrated within a few days. Some mini-courses take the form of workshops. Occurring at various times in the year, mini-courses are publicized throughout campus. They can be added to students schedules during the term. For a sample listing of mini-courses, visit University Interdisciplinary Studies (UDI) in Academic Information.
Special Programs

To serve adults in the Dayton community, the College provides a variety of noncredit courses, many in the form of workshops, seminars, study tours, conferences, and teleconferences. These are planned to meet the educational and training needs of organizations and of the community and are held both on and off campus. This office also administers Elderhostel, the Institute for Learning in Retirement, and Senior Fellows, for persons sixty and over. Continuing Education Units (CEU) are awarded for a fee for some offerings.
School of Business Administration

Patricia Meyers, Dean
James Dunne, Associate Dean
Paul Sweeney, Associate Dean
Janice Glynn, Director, MBA Program
John Shishoff, Director, Undergraduate Programs

Mission

We are a learning community committed in the Marianist tradition to educating the whole person and to connecting learning and scholarship with leadership and service within an innovative business curriculum designed to prepare students for successful careers in the contemporary business environment.
Academic Programs

For detailed information on specific majors and minors, please visit the Academic Information section of the Bulletin.

The School of Business Administration seeks to develop people and knowledge which make a difference in business and society. Our mission is to create outstanding value for our stakeholders by providing high quality educational programs that deliver the best in business thinking and practice, embody the Catholic/Marianist educational tradition and prepare well-rounded graduates for successful business careers and further education.

The School of Business Administration offers a Bachelor of Science degree with majors and minors in:

- Accounting
- Business Economics
- Entrepreneurship
- Finance
- International Business
- Leadership
- Management Information Systems
- Marketing
- Operations Management

Minors are also available in:

- Business Administration (non-business majors only)
- Decision Sciences
- E-business

Requirements for majors and minors are set forth under the program descriptions, located in Academic Information. Interested students should visit the Curriculum page in this section first to gain an overall understanding of the core curriculum that supports each program.

Double majors and minors in business administration programs, and also in non-business programs, are available. Interested students should consult with the Office of the Dean and the appropriate departments for details.

A Bachelor of Science in Business Administration with a major in accounting and an MBA is also available. This program normally requires a fifth year of study. Additionally, students must apply and qualify for admission into graduate school during their fourth year in order to participate.
Curriculum Overview

The School of Business Administration seeks to develop people and knowledge which make a difference in business and society. For this reason, the undergraduate curriculum emphasizes three distinct areas of knowledge: a foundation in the liberal arts (general education requirements), a firm grounding in the common body of business knowledge (core business requirements) and specialization in a business major. Supplemented with opportunities for enrichment, the curriculum stimulates critical thinking, enhances communication skills, integrates and synthesizes knowledge, and fosters ethical decision-making and moral leadership. Built upon the enduring and fundamental bases of knowledge, it is designed to prepare students for successful careers in the complex global economy of the 21st century.

All business students follow essentially the same curriculum during their first and second year, regardless of major. This curriculum consists of a common set of general education and core business requirements. There is some scheduling flexibility in the program, in that certain courses listed in the first year can be taken in the second year (or later) and vice versa. Students should consult an academic advisor in the dean's office or department of their major for sequencing options.

Students majoring in management information systems and entrepreneurship need to schedule courses required for the major during their second year. Students interested in these majors should follow the course sequence listed for each program. Visit Academic Information for specifics.

All business students also take fundamentally the same upper level general education and core business requirements during the third and fourth year. Note that each major also includes several hours of general electives, which students often use to support an additional major or minor. In choosing electives, students must bear in mind that a minimum of 54 semester hours of all academic work must be at the 300-400 level.

First Year Courses
(Core Business Requirements)

- BAI 150 Business Education Planning
- BAI 103L Business Computing Lab
- BAI 151 Business Integration Experience

(General Education Requirements)

- MTH 128 Finite Mathematics
- MTH 129 Calculus for Business
- ENG 101 College Composition
- ENG 102 College Composition II
- CMM 110 Group Decision Making
- CMM 111 Informative Public Speaking
- HST 103 History of Western Civilization
- PHL 103 Introduction to Philosophy
- REL 103 Introduction to Religion
- Physical or Life Science elective (BIO, CHM, GEO, PHY)
- Social Science elective (ANT, POL, PSY, SOC, SWK)

Second Year Courses
(Core Business Requirements)
ACC 207  Introduction to Financial Accounting
ACC 208  Introduction to Managerial Accounting
DSC 210  Statistics for Business I
DSC 211  Statistics for Business II
ECO 203  Principles of Microeconomics
ECO 204  Principles of Macroeconomics
MGT 201  Legal Environment of Business

(General Education Requirements)
HST elective
Physical or Life Science elective (BIO, CHM, GEO, PHY)
CMM elective, select one course from: (CMM 321, 322, 344, 351, 420) or (ENG 370, 372, 378)

CMM 113  Interviewing

Third and Fourth Year Courses
(Core Business Requirements)
FIN 301  Business Finance
MGT 301  Organizational Behavior
MIS 301  Info Systems in Organizations
MKT 301  Principles of Marketing
OPS 301  Survey of Operations Mgt
MGT 490  Managing the Enterprise
ECO elective

(General Education Requirements)
PHL 313 or
REL 368  Business Ethics
PHL or REL elective
Arts Study elective

(Major Requirements)
Courses required for the major. (Visit program descriptions in Academic Information.)

(General Electives)
Most majors have 12 hours of General Elective courses associated with the major. Exceptions are Operations Management, which has 9 hours, and Accounting and Management Information Systems, which have 6 hours each. Many students use the general elective hours to support an additional major or minor.

1A proficiency test for BAI 103L is available for those with adequate background.
2MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirements.
3Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4CMM 110, 111, and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See your faculty advisor for sequencing possibilities.
Admission to the School of Business Administration

The minimum requirements for admission to the School of Business Administration are the following:

- Graduation from an accredited high school
- The following units of college preparatory subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics (Algebra I &amp; II, Geometry)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science with a Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Social Science</td>
<td>2</td>
</tr>
</tbody>
</table>

- Desired academic credentials include upper-half of high school graduation class, SAT scores of 1000 or higher, and ACT scores of 22 or higher.
- Any person whose native language is not English must submit an acceptable score in the Test of English as a Foreign Language (TOEFL). (For more information, visit International Students in Section III, Admission.)
Transfer Students and Transfer Courses

Candidates for admission from other accredited colleges or universities must be in good academic standing in the colleges or universities from which they are transferring and submit a complete application in accordance with UD admissions policies. Students seeking to transfer into the School of Business Administration (SBA) from other UD divisions must submit a complete SBA transfer application (available in the Office of the Dean, MH 230), with a letter indicating their reasons for requesting the transfer. Deadlines for submission of applications from UD students are October 1st and March 1st, so that applications may be processed before the beginning of winter and fall registration. UD transfer students should complete this process prior to taking any upper level (300 and 400 numbered) courses required for the SBA degree.

Approvals for all transfers will be based on consideration of previously earned GPA, SAT and/or ACT scores, high school record, and other information in the application. Approvals may be limited by the enrollment space available. Normally, however, no student will be approved for transfer without a cumulative GPA of 2.5 or higher.

Transfer Courses

Individual courses can be transferred only if the student earned a grade of C- or better, courses in which a D or F grade was received will not be transferred. Upper division business courses can be transferred only from business schools accredited by AACSB International (The Association to Advance Collegiate Schools of Business). At least 75 percent of a student's business courses must be completed at the University of Dayton. Students planning to attend two year colleges before transferring to the School of Business Administration are encouraged to follow arts and sciences or pre-business programs rather than technical programs. (Also visit Section III, Admission.)
Student Laptop Policy

All full-time students are required to purchase a laptop computer from the University of Dayton.

Transfer students (full-time, internal and external) must meet the laptop requirement for their corresponding SBA cohort. For example, the SBA laptop requirement began in Fall 2002. If a student transfers to the SBA in junior standing in the Fall 2004, they must have a SBA-compatible laptop.

Part-time students are also encouraged to buy a UD laptop. Part-time students admitted to the SBA in a degree program must purchase/possess the standard UD laptop or its equivalent. Part-time students not admitted to a SBA degree program (a.k.a. transient students) must meet the laptop usage requirement of the course in which they are enrolled. Part-time students who elect to use non-standard (i.e. non-UD purchased) laptops are responsible for the maintenance, compatibility, and usability of their laptops in every class in their curricula.
Returning Students

A qualified student who returns to the School of Business Administration after an absence of one calendar year or longer may be readmitted to the School of Business Administration according to the University of Dayton requirements which are applied to transfer students from other universities and colleges. (For more information, visit Section III, Admission.) These students will be required to satisfy the program requirements which are current at the time of their readmission to the School of Business Administration. Part-time students (those who carry fewer than 12 semester hours) who are readmitted after an absence of two or more years will be required to satisfy the program requirements which are current at the time of readmission to the School of Business Administration.
Requirements for the Baccalaureate Degree

The School of Business Administration programs lead to the degree of Bachelor of Science in Business Administration upon satisfactory completion of the following requirements:

1. The candidate must successfully complete the first-and second-year business administration program, which is designed to give a wide and liberal education to support a broader comprehension of the fields of business administration and economics. All students in the School of Business Administration must also complete a common block of courses known as the SBA core.

2. The candidate must earn a cumulative grade point average of at least 2.0 in the total semester hours required for the degree and for each major. The 2.00 requirement in the major is calculated using all 300-400 level courses attempted in the student's major; courses numbered at the 100 or 200 level are not included in this calculation.

3. Each candidate must complete at least 54 upper-level (300 or 400 level) semester hours, with a minimum of 36 semester hours in 300-400 level courses in the School of Business Administration. Of these, 18 semester hours or more must be in one of the academic majors.

4. Candidates majoring in accounting, business economics, finance, leadership, entrepreneurship, international business, or marketing must complete a minimum of 123 semester hours. A major in management information systems or operations management requires 124 semester hours.

5. The candidate's final 30 semester hours must be earned at the University of Dayton.

6. The School of Business Administration will not accept any business or business-related courses more than ten years old.

7. A maximum of two semester hours of physical education activities courses (HPS/HSS 130) may be applied toward the minimum graduation requirement.

8. The candidate has the responsibility of meeting degree requirements in business administration. Therefore, the student should be thoroughly familiar with the degree requirements.
Grading Option

All students in the School of Business Administration must register under Grade Option 1 for all courses required to fulfill degree requirements. Cooperative education and internship experience courses are an exception and may be taken under Grade Option 2. However, these courses may be used for general elective credit only.
Internship

Internship is work experience offered (possibly for general elective academic credit) in each of the departments in the School of Business Administration. The intent is to provide practical experience in implementing the theory and skills learned in the classroom in work associated with the student's academic concentration. It is an option open to all undergraduate students pursuing four-year programs once they have fulfilled the following prerequisites:

1. Students must have completed a minimum of 45 semester hours prior to the internship experience.
2. A minimum cumulative GPA of 2.0 is required to participate in an internship. However, individual departments may require a higher minimum cumulative GPA, and students should inquire in the department of their major if such a requirement exists. Departments may alter the cumulative GPA requirement at any time, and any change in the minimum GPA requirement supersedes the minimum GPA printed in the bulletin.
3. Students can earn credit for internships only through the department of their major. Approval from the department chairperson or the chairperson's designee is a prerequisite for earning general elective credit for participation in the program. Individual departments may require other prerequisite courses prior to the internship experience. Students are responsible for checking with the department of their major to determine the prerequisites unique to the department.

Positions offered to students may be either compensatory or noncompensatory. The intent of the internship is to be beneficial to both the students and the participating organizations. Students are encouraged to find positions themselves, and these are acceptable if the employers agree to the conditions for participating organizations.

Credits earned in internship are applied as general electives. The maximum number of semester hours that may be earned over the full four-year degree program is six, although individual department requirements may differ. Interested students should see the department chairperson or internship coordinator for further information as soon as they are eligible for participation.

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Cooperative Education

The School of Business Administration participates in the University of Dayton Cooperative Education Program, which is an optional program often consisting of full-time, on-campus study alternating with terms of full-time, off-campus work. For a fuller explanation of the program, visit Cooperative Education in Section X.

Required prerequisites and the approvals necessary to earn general elective credit are the same as those for internships. Interested students should see the department chairperson or internship coordinator for their major, in addition to career services, to obtain additional information.
Study Abroad Programs

Students in the School of Business Administration (SBA) are eligible to participate in summer programs in Europe and Asia. Students register for the University of Dayton’s summer term and take 12 to 15 hours of courses taught abroad primarily by SBA faculty members.

The twelve-week European program is divided into two sessions, with a week break between sessions. In 2004, students were able to spend the first session in either Augsburg, Germany or Barcelona, Spain. In the second session, students chose between Augsburg and Rome, Italy.

The Asia Study Abroad Program is a semester-long living and learning experience based in Bangkok, Thailand. In addition to exploring Thailand, students participate in structured class-related excursions to Vietnam, Cambodia, Burma, Japan, Malaysia, Singapore, Tibet and China.

Students may attend foreign universities and take classes during normal fall or spring terms, in addition to the formalized summer experiences. Students may do this independently or take advantage of one of the exchange agreements that the SBA has with several accredited business schools worldwide. Examples include accredited universities in Mikkeli, Finland; Angers, Lille or Nice, France; and San Sebastian, Spain.
School of Education and Allied Professions

Thomas J. Lasley, Dean
C. Daniel Raisch, Associate Dean
H. Roberta Weaver, Associate Dean
Patricia M. Hart, Assistant Dean

In conformity with the University's mission, the School of Education and Allied Professions (SOEAP) endeavors to educate distinctive graduates who will effectively and efficiently utilize the highest quality of learning and scholarship and engage people in building strong learning communities and in developing collaborative, dynamic partnerships. The SOEAP programs focus on distinctive Catholic and Marianist educational and intellectual traditions which enable graduates to become effective practitioners in the field of professional education and the allied professions. The theme for the SOEAP is "Building Learning Communities Through Critical Reflection".

As a community of learners, collaboration and critical reflection is fostered and encouraged through efforts to integrate and connect knowledge, skills and dispositions gained from various courses in the SOEAP and the liberal arts, including the general education curriculum. This acquaints the students with the major areas of knowledge and provides the basis for their specific program of study. The SOEAP is particularly noted for the professional development of teachers and allied professionals who are able to enhance the quality of life experiences for both children and adults. In relation to teaching, the school is committed to quality programs which address the professional preparation of teachers for the early, middle, and secondary schools and intervention specialists. In relation to the allied professions, the school is committed to quality programs which address the professional preparation for specialists in physical education, exercise science and fitness management, sport management, health information and food and nutrition. Provisions for professional competence are made through (1) comprehensive study of the various fields, (2) thorough study of the professional foundations common to all of the program areas, (3) specialized study of the principles underlying a particular area of study, and (4) appropriate field-based experiences.

Students in the SOEAP should appraise their commitment to teaching and the allied professions according to their development in specific knowledge, skills, and dispositions. Students will have opportunities to apply theory to practice in planned and supervised field-based experiences. Their programs of study will include reflective practice which will incorporate inquiry leading to self improvement.

The SOEAP is committed to education for the improvement of others and society; to the principles that refer to a shared common humanity, to the dignity of the person and the use of reason and cooperation in seeking social justice; to the democratic principles; to a humanistic approach to learning; and to the Marianist traditions in education.
Degree Requirements

Following this general introductory section, this chapter includes specific four-year course requirements for the various programs in Health and Sport Science and in Teacher Education. The programs for licensure in early childhood, middle childhood, adolescent to young adult, intervention specialist and multi-age (art, foreign language, physical education) teaching are all included. All of these programs lead to the Bachelor of Science (B.S.) degree.

The Department of Teacher Education has an extensive benchmarks (requirements for starting and/or continuing a program) process for students in all four years of the program. Before registering for the second year of courses, all students in teacher licensure programs should have taken and passed all three sections of the Praxis I exams. At the end of their first year, all students are required to apply for formal admission to the particular licensure program which they choose to study. The student's application is reviewed by a departmental committee to determine the extent to which their academic work and other benchmark accomplishments indicate the likelihood of their success as professional teachers. Admission requires a GPA of 2.5 overall, in professional education courses and in the various teaching field(s), the passing of Praxis I, along with other Benchmark expectations.

The responsibility for meeting the University and state requirements rests with the student. The student is advised to study the course requirements and to keep accurate count of the semester hours applicable to graduation. Students planning to teach in states other than Ohio should fulfill University requirements as well as those of the state in which they intend to teach.

The requirements for graduation and teacher licensure are included below.

1. The student would demonstrate abilities in content and pedagogical knowledge, dispositions and skills that would be indicative of professional success. All students enrolled in programs leading to State of Ohio licensure must verify that they are of "good moral character," fingerprinted, and pass a background check. Pursuant to SOEAP policy, these students must complete the appropriate forms provided by the Office of the Dean. (Consult the SOEAP dean's office for further information.)

2. The student would successfully complete a variety of planned and supervised clinical experiences essential to the professional development of beginning teachers.

3. The student would successfully complete a minimum of 124 semester hours in approved courses; some programs may require more than 124 semester hours.

4. The student would demonstrate a cumulative grade point average of at least 2.5, overall, in the professional education courses and in each teaching field in which licensure is sought. The professional education courses, the content courses in the teaching fields, and the General Education courses must be taken under grading Option 1.

5. The student would successfully complete the following general professional education sequence of courses:
   A. Personal and Professional Development of the Teacher
   B. Child and/or Adolescent Development
   C. Teaching and Learning Theories
   D. Inclusive Education
   E. Special Methods
   F. Philosophy and History of Education
   G. Student Teaching

   With the possible exception of A, B, and C, all courses in the above sequence must be taken at the University of Dayton. Transfer credits from other institutions normally are not accepted in substitution for
courses D through F, and are never accepted for student teaching.

6. The student would complete the University requirements in General Education and pass the Basic Skills competencies in reading and writing, oral communication, quantitative reasoning, and information literacy. Students should see Section V, Academic Regulations and consult with their advisors for more information.

7. The student must have a passing score on all three sections of the Praxis I (math, reading, and writing), which must be taken by the end of the first term of the first year of study.

8. The student must have a passing score on several Praxis II tests, which are required by Ohio's State Department of Education for eligibility for the provisional license to teach. Students should consult the dean's office for the specific tests appropriate for their programs, and the dates on which the examinations will be administered.

Each program has particular methods courses along with other specialized education courses; see specific programs.
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1. The student would demonstrate abilities in content and pedagogical knowledge, dispositions and skills that would be indicative of professional success. All students enrolled in programs leading to State of Ohio licensure must verify that they are of "good moral character," fingerprinted, and pass a background check. Pursuant to SOEAP policy, these students must complete the appropriate forms provided by the Office of the Dean. (Consult the SOEAP dean's office for further information.)

2. The student would successfully complete a variety of planned and supervised clinical experiences essential to the professional development of beginning teachers.

3. The student would successfully complete a minimum of 124 semester hours in approved courses; some programs may require more than 124 semester hours.

4. The student would demonstrate a cumulative grade point average of at least 2.5, overall, in the professional education courses and in each teaching field in which licensure is sought. The professional education courses, the content courses in the teaching fields, and the General Education courses must be taken under grading Option 1.

5. The student would successfully complete the following general professional education sequence of courses:
   A. Personal and Professional Development of the Teacher
   B. Child and/or Adolescent Development
   C. Teaching and Learning Theories
   D. Inclusive Education
   E. Special Methods
   F. Philosophy and History of Education
   G. Student Teaching

   With the possible exception of A, B, and C, all courses in the above sequence must be taken at the University of Dayton. Transfer credits from other institutions normally are not accepted in substitution for
University Policies

Students are reminded to refer to pertinent sections of this Bulletin and the Student Handbook for all policies to which they are subject.
1. It is the policy of the Department of Teacher Education that the candidates for undergraduate licensure are placed in schools in the Miami Valley area for student teaching experiences. Student teaching is the capstone experience for the preparation programs. The University needs to continue supervision and contact, to maintain the consistency and the quality of the licensure programs.

2. It is the policy of the Department of Teacher Education that an education course taken as an independent study cannot be applied toward teacher licensure.

3. It is the policy of the Department of Teacher Education that if a student misses more than 13% of the regularly scheduled class time and/or required field experience (this would include absences and tardiness) because of unexcused absences, the student will receive a failing grade and must re-take the course in a subsequent semester.

4. It is the policy of the Department of Teacher Education that if a student receives a grade of D or lower in an EDT course, the student will be required to re-take the course. After the student receives a grade of C- or higher in the course, the student may continue in their regular program of study. The student may be allowed to take one EDT course simultaneously while re-taking the course, provided the student has an overall GPA of 2.5 and has passed all three sections of PRAXIS I.

5. It is the policy of the Department of Teacher Education that independent study is not available for regularly scheduled undergraduate courses.

6. It is the policy of the Department of Teacher Education to collect and interpret data on professional behavior. The Department has adopted the following "flags" in order to track student performance and identify problems as they arise:
   - Feedback which includes a "not met" or "one" in a competency on the field observation forms.
   - A "C-" in an EDT course.
   - Poor evaluation from a course instructor.
   - Inappropriate attendance, participation and/or professional disposition on campus or in the field, as determined by the program faculty. This includes exceeding excused or unexcused absences of 13%.
Student Teaching

Student teaching, which is full-time supervised teaching with qualified mentor teachers in P-12 schools, involves full-day sessions for approximately one semester. During the semester of student teaching, the student is advised to not register for any other courses, but as an exception will be allowed to take at most three semester hours of additional course work. These additional semester hours must be scheduled outside the normal school times in order to keep the student-teaching experience intact for the full school day. It is advised that the student make financial arrangements so that they are prepared to discontinue part-time employment during this semester. The faculty members in the Department of Teacher Education screen each candidate who applies for student teaching on the basis of the following factors: (1) a grade-point average in professional education, concentration content course work, and overall course work of at least a 2.5, (2) completion of "Good Moral Character" form, (3) successful completion of the prerequisite courses and field experiences, and (4) successful completion of the required standardized testing.

Prerequisites for candidacy for student teaching are (1) official enrollment in a teacher education program at the university, (2) completion of the minimum residence requirement of thirty semester hours inclusive of student teaching, (3) formal application for student teaching submitted at the beginning of the term in advance of student teaching. (Application forms may be secured from the department offices or at http://soeap.udayton.edu/support/ed_place/index.htm.)

A student-teaching seminar will be held weekly throughout the term. Once students have been approved and placed for student teaching, they may not withdraw from the program except with the approval of the department chairperson. A student who withdraws without this approval forfeits future placement in student teaching.
Licensure and Securing a Teaching Position

Students who qualify for teacher licensure through the SOEAP are aided in securing teaching positions by the University of Dayton Career Services and are supported by faculty and the Educational Field Office. Placement requires cooperation from the candidate in uploading the necessary information and in obtaining letters of recommendation. Dates for interviews with prospective employers arranged by the University of Dayton Career Services are announced in advance.
Teacher Licensure

The SOEAP programs are approved by Ohio's State Department of Education and accredited by the National Council for Accreditation of Teacher Education (NCATE). Ordinarily, Ohio licenses are recognized by other states. Students are encouraged to check licensure requirements for states in which they are seeking positions.

In addition to preparing properly licensed early childhood, middle childhood, adolescent to young adult and intervention specialist teachers, the SOEAP also enables students to qualify for multi-age (p-12) licensures in art, foreign language, physical education, and music education.
Baccalaureate Programs

The SOEAP offers the following programs leading to the baccalaureate degree. (These programs are outlined later in this chapter under code designations—for example, EDT = Teacher Education, HSS = Health and Sports Science, VAR = Visual Arts.) The programs are as follows:

Program BSE.ECE: Early Childhood Education
Program BSE.EMS: Middle Childhood Education
Program EDP: Physical Education Pre K-12
See HSS
Program E6: Multi-age, grades K-12
BSE.EAR: Visual Art
See EDT, VAR
BSE.ELA: Foreign Language
Program BSE.EYA: Adolescence to Young Adult
Program EES: Exercise Science and Fitness Management, Option 1
EES: Exercise Science and Fitness Management, Option 2
EPT: Exercise Science and Pre-Physical Therapy
See HSS
Program ESM: Sport Management
See HSS
Program BSE.EMM: Intervention Specialist (Special Education)
Program E11A: Teacher Licensure for students in the College of Arts and Sciences
See EDT and Section VI.
Program EHA: Food and Nutrition, Option 1 - Didactic Program in Dietetics
Program EHN: Nutrition and Fitness, Option 2 - Nutrition

NOTE: All licensure programs and teaching fields described in this chapter have been approved by the Ohio Department of Education under the licensure standards effective July 1, 1998.
Multi-age Programs P-12

The Department of Teacher Education offers the program for multi-age licensure (E6) to teach grades P-12, which leads to the Bachelor of Science in Education.

A student in the Multi-age P-12 Program is required to have one teaching field totaling a minimum of 45 semester hours. In order to do student teaching and be recommended for licensure, the student must have a cumulative grade point average of at least 2.5 as well as a minimum of a 2.5 in both, professional education courses and in teaching field(s), and pass Praxis I. At the end of the program, in order to receive a provisional license the student must pass an exit exam, Praxis II, verify "good moral character," and be fingerprinted.

Special teaching fields include the following:

- Visual Arts (EAR), with four concentrations available:
  - Visual Communication
  - Photography
  - Studio Art
  - Art History

- Foreign Language (ELA), with three concentrations available:
  - French
  - German
  - Spanish

Music Education (P-12) is also available through the E11A Program.

Checksheets for each field are available on the Department of Teacher Education's website at http://soeap.udayton.edu/academic/edt/checksht/checksht.htm.
Licensure for Students in Arts and Sciences

Program E11A: B.A. or B.S. with Teacher Licensure

Students in the College of Arts and Sciences may enroll in the Department of Teacher Education's Adolescence to Young Adult Education Program without transferring to the School of Education and Allied Professions. For requirements in professional education courses and in teaching fields consult the Arts and Sciences dean's office.

Enrollment, continuation and successful completion in this program (E11A for students matriculating in the College of Arts and Sciences) is subject to the same admission requirements, advising, maintenance of a unified system of records, screening, and other professional expectations of students in the School of Education and Allied Professions working toward the B.S. in Education. These include passing all three sections of Praxis I; maintaining an overall average of 2.5 in the content area and in professional education courses, completing field-based experiences in the schools, a semester of student teaching and taking the comprehensive Praxis II exams.

In order to finish in four years, a student in the College of Arts and Sciences will need to process an application for admission to the Adolescence to Young Adult Education Program no later than the third semester and begin the professional education sequence. Failure to enroll on time may necessitate going beyond the normal four years in order to qualify for teacher licensure and graduation. The requirements for the College of Arts and Sciences and those of the School of Education and Allied Professions must be completed before any degree is granted.

When the proper course requirements have been completed, the student may register for student teaching, upon approval of the application for student teaching. Applications are available at http://soeap.udayton.edu/support/ed_place/form5.htm and must be submitted to the Educational Field Office at the beginning of the term prior to the term in which student teaching will take place.

When all the requirements for teacher licensure are completed, the student should make application for the standard State Teaching Provisional License through the recommending officer of the School of Education and Allied Professions, in the dean's office.
Graduate Programs

The SOEAP offers graduate programs leading to the degree Master of Science in Education and Allied Professions. These programs are designed to prepare teachers in the areas of adolescents and young adults, middle childhood, early childhood, multi-age in art, music, physical education, foreign language and intervention specialists, as well as school counselors, school psychologists, school social workers, social agency counselors, college student personnel professionals and school administrators. The degrees Educational Specialist and Doctor of Philosophy in Educational Leadership are also offered. For people who have bachelor degrees and are interested in becoming licensed teachers, the Department of Teacher Education offers graduate programs leading to various licensures. For in-service teachers who wish to obtain licensure in other areas, the Department of Teacher Education offers a variety of programs.
School of Engineering

Joseph E. Saliba, Dean
Malcolm W. Daniels, Associate Dean for Undergraduate Programs
Donald L. Moon, Associate Dean for Graduate Programs, Research, and Information Technology
Carol M. Shaw, Associate Dean and Director of the Center for Competitive Change
Antionette Letavec, Assistant to the Dean

Our Vision

We will be national leaders in creating knowledge to serve society and in wholly educating highly effective professionals through a sound foundation in engineering and technology and experience in the Marianist tradition of moral integrity, strong community, and service above self.

Our Mission

The School of Engineering builds on a strong Marianist campus community, excellent collaborative partnerships with regional industry and government, outstanding faculty and staff, and state-of-the-art facilities to foster up-to-date and forward-looking inquiry and learning that provides wholly educated graduates and outstanding service to society.

Our Purpose

The School of Engineering has as its purpose the preparation of men and women for professional careers in engineering and in technology so that they may assume responsible positions of a technical nature in business, industry, education, and government. Of primary concern is the development of professional competencies and philosophies within the various engineering and technology disciplines, as well as providing a broad view of the technical and social problems that confront society. Additionally, all School of Engineering programs provide excellent background for other career areas.

As an educational unit of a private university, the School of Engineering strongly emphasizes the advising of students so that they may achieve their educational objectives within the engineering program. Each student is assigned a faculty advisor. Academic advising begins before the students begin their formal course work and continues as they progress toward their objectives.

The broader responsibilities of the engineering profession demand that the professional education of an engineer include a significant component of humanities, ethics, and social science studies so that the student will become aware of the urgent problems of society and develop a deeper appreciation of the cultural achievements of humanity. Additionally, such studies provide the proper framework to ensure that scientific discoveries and developments by engineers may result in the true advancement of the human race.
Optional Cooperative Education

Cooperative education offers the student the opportunity to put classroom work into practical use while still in school, resulting in early career identification and greater motivation as well as providing a source of funds. All students majoring in engineering and engineering technology may participate in the cooperative education program. To be eligible, students must have completed three semesters and have a cumulative grade-point average of not less than 2.3. Those applying for the program will be accepted on the basis of grade-point average, motivation, and attitude. The number of students placed depends on the availability of jobs. For more information, visit Cooperative Education in Section X.
Undergraduate Engineering Programs

The engineering program in each of the fields of chemical, civil, computer, electrical, and mechanical engineering is designed to lead to a bachelor's degree in a four-year period. While students pursue curricula they themselves have chosen according to their fields of interest, they all take certain core courses in mathematics, chemistry, physics, English, and engineering fundamentals. All of the programs permit additional specialization (as an overload) in 16 minors and in two concentrations in areas such as aerospace engineering, computer engineering, engineering mechanics, computer systems, structures, and industrial engineering in the School of Engineering and in other areas such as music, languages, and political science in other units of the University. Although emphasis is on fundamental theories, continued attention is paid to the solution of practical problems which the student will encounter in the practice of engineering.

The programs in chemical engineering, civil engineering, computer engineering, electrical engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

The programs in electronic, industrial, manufacturing, and mechanical engineering technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.
The engineering programs welcome transfer students from both community and senior colleges and work closely with many schools to facilitate transfers from pre-engineering programs. Students may complete the first two years of study in other accredited institutions and transfer to the University of Dayton with little or no loss of credit provided that they have followed programs similar to those prescribed by the University of Dayton School of Engineering.

The School of Engineering has dual degree arrangements as well as curriculum agreements with Sinclair Community College and Edison State Community College.
Minors in Engineering

The student majoring in chemical, civil, computer, electrical, or mechanical engineering may choose a minor area of technical study. The minor program in the School of Engineering provides an opportunity to specialize in a particular technical sub-area while still pursuing a major program of study in one of the traditional and well recognized engineering disciplines. The minors program was designed in response to the needs of industry and government and to the educational needs and career objectives of students. Election of the minor is optional; it may require additional courses for completion.

The minor is defined as at least 12 semester hours of work. It can be composed of any number of 1- to 4-semester-hour courses selected from the approved list of minor areas of study, which currently include the following:

- Aerospace Engineering
- Bioengineering
- Chemical Processing
- Composite Materials Engineering
- Computer Systems
- Design and Manufacturing Engineering
- Dynamic Analysis of Mechanical Systems
- Energy Conversion
- Engineering Management
- Engineering Mechanics
- Environmental Engineering
- Materials Engineering
- Mechanics of Engineering Systems
- Operations Engineering
- Signals and Systems
- Structures
- Thermal Engineering
- Transportation Engineering
- Water Resources Engineering

A 12-semester-hour concentration in electro-optics is available to electrical and computer engineering undergraduates. An 18-semester-hour concentration in aerospace engineering is also available to mechanical engineering students. Additional minors from outside the School of Engineering are available in many subject areas.

Students, in consultation with their faculty advisors, normally select the minor or concentration in the second semester of their sophomore year. The minor or concentration is designated on the student's transcript.
Engineering First-Year Requirements

Students who are recent high school graduates or who have earned fewer than 15 semester hours of collegiate credit are classified as first-year students and must meet common engineering program requirements. Such credit requirements may be met in a number of ways, including (1) advanced college-level course work at the University of Dayton or other collegiate institutions, (2) advanced placement examinations, (3) departmental examinations during the first term, or (4) taking the prescribed courses as part of the first year.
Degree Requirements

A student enrolls in the curriculum prescribed for the academic year in which he or she is registered as a first-year student at the University of Dayton or elsewhere. If for any reason it is necessary or desirable to change to a subsequently established curriculum, the student must meet all of the requirements of the new curriculum.

The degrees Bachelor of Chemical, Civil, Electrical, or Mechanical Engineering, Bachelor of Science in Computer Engineering, and Bachelor of Science in Engineering Technology are conferred at commencement if the general requirements enumerated in Section V, Academic Regulations have been fulfilled as well as those listed below:

1. All prescribed courses outlined in the respective curricula must have been passed with grades of D or better and the student must obtain a minimum grade point average of 2.000 for the prescribed courses. Although courses may be scheduled in terms other than as listed, all prerequisites and corequisites must be met.
2. All students in the School of Engineering must register under Grade Option 1 for all courses in engineering, mathematics, and science except those offered only under Grade Option 2.
3. The cumulative grade-point average in all courses which have an engineering prefix must be at least 2.0 (C average).
4. The student must have attended the School of Engineering at the University of Dayton during their senior year, carrying at least 30 semester hours.

The semester hours of credit required for graduation in each engineering curriculum administered by the School of Engineering are as follows:

Bachelor of Chemical Engineering 137
Bachelor of Civil Engineering 138
Bachelor of Electrical Engineering 136
Bachelor of Mechanical Engineering 133
Bachelor of Science in Computer Engineering 136

The semester hours of credit required for graduation in each engineering technology curriculum administered by the School of Engineering are as follows:

Bachelor of Science in Engineering Technology

Computer Engineering Technology Major 130
Electronic Engineering Technology Major 129
Industrial Engineering Technology Major 129
Manufacturing Engineering Technology Major 129
Mechanical Engineering Technology Major 129
5-Year Combined Bachelor's-Master's Engineering Program

The School of Engineering offers a combined 5-year program leading to both a bachelor's degree in a departmental major (chemical, civil, computer, electrical, or mechanical engineering) and a master's degree. Physics majors (College of Arts and Sciences) may also participate. The program is designed for the qualified student who wishes to pursue either greater specialization in a major area or to complement the undergraduate program with a related graduate-level concentration. Most students who select the program have received some advanced placement upon entry to engineering at the first-year level or take occasional summer courses.

The formal request for entrance into this program is made before the first semester of the student's junior year. Admission requirements include a minimum cumulative grade point average of 3.00 and permission from the chairperson of the department corresponding to the student's undergraduate major.

### Undergraduate Program | Graduate Program Selections
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The department chairperson and the graduate program director serve as an advisory committee to the student in establishing the 5-year combined program requirements. The first-year, sophomore, and junior years follow the curriculum of the student's selected bachelor's program.

A student who elects the 5-year combined program must satisfy both undergraduate and graduate degree requirements as to required cumulative grade point average for graduation. The graduate of the combined program will receive a bachelor's degree in the undergraduate major (e.g., Bachelor of Mechanical Engineering) and a master's degree in the graduate area (e.g., Master of Science in Materials Engineering). A student in the 5-year combined program who chooses not to complete the program must complete all the undergraduate major program requirements to receive the bachelor's degree.
Engineering Technology

The School of Engineering also offers a Bachelor of Science in Engineering Technology. The programs in which the degree is offered are computer engineering technology, electronic engineering technology, industrial engineering technology, manufacturing engineering technology and mechanical engineering technology. The engineering technologist is usually involved in the design, performance evaluation, service and sales of products, equipment, and manufacturing systems or the management of these activities. The management of process operations and plant facilities are also important career paths.

The engineering technology programs provide: (1) specialized technical courses that emphasize rational thinking and the application of engineering and scientific principles to the practical solution of technological problems; (2) courses in applied mathematics and science sufficient to support the technical courses and to prepare the student for future growth; and (3) education to prepare students to communicate intelligently and to take places in society as responsible, humane, complete professionals.

The University of Dayton Department of Engineering Technology will prepare graduates who:

- have a well-rounded education and are professionally competent;
- apply current and practice-oriented methods, and integrate multidisciplinary concepts, to solve technical problems;
- apply critical thinking, problem solving, and decision making skills to analyze emerging issues;
- have the ability to function effectively as a member of a team, and have leadership skills;
- communicate effectively in oral, written, and visual modes in both interpersonal and group environments;
- are global citizens with ethical and professional standards of conduct, and an understanding of social impacts, and contemporary practice issues; and
- are prepared for service and continuing professional development.

Transfer Students

The engineering technology programs welcome transfer students from associate degree programs in engineering technology who wish to pursue the Bachelor of Science in Engineering Technology. Graduates of two-year associate degree programs in engineering technology should normally expect to undertake at least two additional years of work for the bachelor's degree.

Minors in Engineering Technology

Students majoring in any engineering technology program may earn a minor in another engineering technology program by completing 12 approved semester hours of work in the second discipline. Courses already required in the student's program may not be counted in the minor. The director of the program in which the minor is to be earned is responsible for approving the list of courses for the minor.

Minors in engineering technology are offered for students enrolled in majors in the College of Arts & Sciences, the School of Business Administration, and the School of Education and Allied Professions.

Engineering Technology First-Year Requirements

Students selecting any of the five engineering technology majors should take the courses prescribed for the first year as listed in the individual curricula in the Academic Information section of the Bulletin. Undeclared engineering technology students should follow the first-year schedule listed below.

http://bulletin.udayton.edu/content.ud?v=6&p=1170&c=1184 7/10/2012
Interdisciplinary, Experimental and Special Areas

Please select a subsection using the menu to the right.
Affirmative Action Office

As an integral part of the Office of Legal Affairs, the Office of Compliance and Affirmative Action, in St. Mary's Hall, Room 400, provides services to all employees. The Affirmative Action Officer/Staff Attorney is the University's compliance officer for Affirmative Action/Equal Employment Opportunity (AA/EEO), Title IX of the Education Amendment of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, and the Age Discrimination Act of 1975.
Air Force Reserve Officers Training Corps (AFROTC)

The Air Force Reserve Officers Training Corps (AFROTC) program is offered through the Department of Aerospace Studies at Wright State University. Students may enroll in Air Force ROTC courses through the consortium cross-registration procedures (contact the Registrar's Office to obtain a list of course numbers, scheduled class times and locations). For more information contact the Air Force ROTC Detachment located in Room 232 of the Frederick A. White Health Center at Wright State University or phone (937) 775-2730 or e-mail, afrotc@wright.edu.
Center for International Programs

The Center for International Programs provides leadership, coordination and administrative support for the development of international understanding among faculty, staff and students. This is accomplished through organizing international conferences and workshops, hosting visiting scholars, organizing study abroad programs, maintaining relationships with foreign universities and supporting the Model United Nations. The Center for International Programs is also committed to outreach programming that builds links between the University of Dayton, Dayton's business, cultural and humanitarian groups, and the international community. The Center for International Programs seeks to promote the University of Dayton's involvement in international peace building, human rights and cooperation.

The Center for International Programs includes the Office of Study Abroad, which coordinates the International Summer Study Abroad Program (ISSAP) and provides international education and travel counseling. The Center for International Programs also includes the Office of International Services, which coordinates international recruitment, admission, advising, orientation, credential evaluation, immigration and other issues or services for international students and faculty.
Raymond L. Fitz, S.M. Center for Leadership in Community

The mission of the Raymond L. Fitz, S.M. Center for Leadership in Community is to initiate and sustain partnerships with urban neighborhoods and larger communities for working at comprehensive community building and providing a context for connected learning and scholarship. The University of Dayton's vision is to become a national leader in the education of community builders - including students, faculty, staff and alumni - through their participation in community building partnerships. Grounded in Catholic social teaching and Marianist ideals, the Fitz Center stimulates, coordinates and facilitates learning and scholarship on leadership in community.

The Fitz Center builds on the University's and the Marianists' long experience of linking University resources to those of the Dayton community to solve regional problems, develop community leaders and build neighborhoods. In this time, the University has built collaborative relationships with dozens of neighborhood, community, nonprofit and government organizations and associations, in efforts that have enriched the quality of life for thousands of citizens within Dayton and surrounding communities. These projects have also afforded meaningful service learning opportunities to hundreds of students and dozens of faculty members annually.

The Fitz Center for Leadership in Community is built around four basic convictions that are shared by other university-based urban centers, independent urban research centers and a number of national and regional foundations that promote constructive change in communities. These four basic convictions represent new approaches to addressing societal needs. We believe we must do four things differently than they were done in the past.

- A different way of learning - practical reasoning and experiential (service) learning
- A different way of seeing and understanding - the urban community as a social ecology of children, families, neighborhoods, and systems
- A different way of designing and implementing change - comprehensive community building based on assets, not needs
- A different way of leading - adaptive leadership through constructive conversation

These basic convictions guide our planning and program development. They also build on the extensive community experiences of the Fitz Center team.

The Fitz Center for Leadership in Community has four primary functions. These are carried out by teams of students, faculty and Fitz Center staff working in partnership with neighborhood and community leaders.

- Initiate and sustain partnerships. These are the basis for building trust and provide a context for service learning.
- Develop communities of learning, scholarship and practice. Link people around community building. Provide conferences and symposia on community building, families and neighborhoods, university/community partnerships and Catholic social teaching.
- Develop curricular innovations around leadership in community. These include extensive contributions to undergraduate and graduate course offerings.
- Build community capacity for constructive deliberation and change. This is done through research and evaluation and occasional forums for community deliberation.

The Fitz Center provides an interdisciplinary minor in family development within the College of Arts and Sciences. It also conducts research on a broad range of contemporary family and community issues and offers opportunities for the development of social science research skills through tutorials and participation.
in its ongoing research projects. It serves as a resource to local governmental, health, religious, educational, and social service agencies in developing solutions to the problems of families and the communities in which they live. The Fitz Center is committed to an integrated perspective on families and communities that draws on multiple disciplines. For more information, visit FDV in Academic Information.

Marianist Provincial Father William Ferree was recognized as a key spokesperson on the Catholic theory of social justice. In his honor, the Cincinnati Province of the Society of Mary pledged $1 million to endow the Ferree Professor in the Fitz Center for Leadership in Community. The Ferree Professor connects Catholic social teaching and the social sciences through the community-building mission of the Center.

The nature of the leadership challenges in the Dayton community requires adaptive learning and leadership across professional and community sectors. The University of Dayton has established a reputation as an effective community partner, especially with urban Dayton on difficult community challenges. The University of Dayton adds value with a Fitz Center that brokers and leads ongoing community building partnerships.
As one of the nation's premier institutions for technology-enhanced learning, information technology plays a central role in both the living and learning experiences of students at the University of Dayton. Beginning in August 1999, all first-year students are required to purchase a personal computer as part of their entrance to the University. This requirement is coupled with campus-wide software that supports learning, communication and collaboration within and beyond the classroom. Microsoft Office and Lotus Notes are the two key application suites that provide the connectivity and productivity for learners across campus. In addition to an array of 22 on-campus computer-equipped classrooms, the University of Dayton has one of the most unique "wired neighborhoods" in the nation - 25 city blocks of UD owned houses fully wired with high speed data connections for every student. The University also supports wireless coverage in selected areas on and off campus.

Information technology across campus is supported by UDit, a newly formed, campus-wide team of IT professionals. The infrastructure at UD includes a gigabit network backbone with over 50 servers. In addition to a very robust network, UDit also houses the Help Desk, Call Center, IT training and E-learning support operations. Across the entire campus, there are over 150 IT professionals supporting learning and collaboration.

Students at the University of Dayton are encouraged to become highly proficient in using the tools of the information age as they prepare for their chosen careers.
Adult Degree Advancement Program (ADAP)

Specifically designed for students 24 years of age and older who wish to attend college part-time, the University of Dayton Adult Degree Advancement Program (ADAP) allows you to complete your bachelor's degree at a pace that fits nicely with your lifestyle. Day and evening classes are available. Tuition for the ADAP students is very affordable, with cost per credit hour comparable to other adult degree programs.

ADAP students can select from one of four bachelor degree programs: Communication Management, Psychology, Engineering Technology, and General Studies. Information regarding Communication Management, Psychology, and General Studies can be obtained from Julie Mitchell in the College of Arts and Sciences, 229-2605. Information regarding the Engineering Technology program can be obtained from Scott Segalewitz in the Department of Engineering Technology, 229-4216.
Cooperative Education (COP)

Cooperative education is an optional plan of full-time, on-campus study alternating with terms of full-time, off-campus paid work experience in industry, business or government. Among the expected benefits to the student are on-the-job experience, career identification, financial assistance, and professional development. The work terms average seventeen weeks. Three full work terms are considered minimum for the program. Students are encouraged to begin their first co-op work experience after their third or fourth semester of academic study.

Qualifications for entering and remaining in cooperative education are (1) to be admitted to the University as a full-time undergraduate student with the intention of graduating; (2) to have a declared major in one of the academic departments participating in the co-op program; (3) to maintain good academic standing as specified by the particular academic department; (4) to engage in full-time study and make progress toward the degree during each study term following each full-time work training term. Placement in a job is not guaranteed since it depends on the student's qualifications and on the availability of jobs.

Cooperative education is currently available as an option to full-time undergraduate majors in the following:

College of Arts and Sciences: Chemistry (CHM), Computer Science (CPS), Computer Information Systems (CIS), Mathematics (MTH), Biology (BIO), Physics (PHY), Physics-Computer Science (PCS), Psychology (PSY), Environmental Biology (EVB), Communication (CMM), English (ENG), and Visual Communication Design (VCD).

School of Business Administration: All majors are eligible to apply.

School of Engineering: All engineering and engineering technology majors are eligible to apply.

If the cooperative education option becomes available in other majors, notice will be released through the admission counseling staff of the University.

Incoming first-year students or transfer students interested in cooperative education should attend the Career Services presentation during the new student orientation week in August. Incoming sophomore, junior level or transfer students interested in cooperative education should attend one of the seminars held in September and January of each year. After each Co-op New Student Seminar, such students may begin the process of entering the program, which includes registering through PlacePro and having an initial interview with one of the Assistant Directors. Those who start as first-year students at the University are eligible for placement after completing three terms of full-time study on campus. Transfer students, whether from two-year or four-year institutions, spend one full-time study term on campus after transferring before becoming eligible for the first work term.

Further information on the cooperative education program may be obtained by writing or calling Career Services, University of Dayton, Dayton, Ohio 45469-1110; telephone (937) 229-2064.
The University of Dayton's Core Program offers an innovative, interdisciplinary curriculum program consisting of a sequence of courses that fulfill many of the University's General Education Requirements. These courses address a common theme, "Human Values in a Pluralistic Culture," and are carefully coordinated with one another so that students experience the integrated character of the liberal arts. Extra-curricular speakers, arts events, and other activities related to course content are an important part of the program.

Core accepts approximately 150 students each year, representing all of the University's four undergraduate schools -- the College of Arts and Sciences, the School of Business Administration, the School of Education and Allied Professions, and the School of Engineering. All entering first-year students are invited to apply; students in some majors in the College of Arts and Sciences are enrolled automatically. Core is designed to deepen the learning experience of any interested University of Dayton student. While Core is not an accelerated or honors program, students can earn credit toward the Honors Program with Core courses.
The Bachelor of General Studies program permits students to pursue a non-traditional degree outside of any departmental major. Students can utilize the academic resources of the University to meet their individual, educational needs. For more information, visit Section VI, College of Arts and Sciences.
The Center for Graduate Guidance and Post-Baccalaureate Scholarships

The Center for Graduate Guidance and Post-Baccalaureate Scholarships assists undergraduate students and their faculty mentors in preparation of superior graduate and professional school applications (with the exceptions of medicine and law). The Center also serves as the campus representative for prestigious national and international post-baccalaureate scholarship competitions (e.g., Rhodes, Marshall, Fulbright). Providing information, advising expertise, and university-wide coordination of scholarship applications, the Center is an essential resource for academically aspiring undergraduate students.
Distance Learning Courses

Students who wish to accrue academic credit during the summer but find it inconvenient to be on campus for classroom courses during either session of the third term should see the official third-term composite of courses and consult with their advisors for information about the home-study courses that several departments offer. These are conducted by mail or via the internet on a tutorial or semitutorial basis for students who have proven their ability and their motivation to work alone.
Institute for Pastoral Initiatives

The Institute for Pastoral Initiatives mobilizes the resources of the University of Dayton for partnerships with the church that create and implement innovative pastoral initiatives designed to meet the needs of the church and to articulate faith within the context of contemporary culture.

The Institute co-directs the unique Forum for Young Catechetical Leaders for students. The FORUM prepares students to be certified to become catechists in the Catholic Church. Students are introduced to outstanding catechetical leaders from around the country. Each semester students gather one Saturday a month for a full day of catechetical formation. This is the only such program in the USA in a Catholic University.

The Virtual Learning for Faith Formation -online courses- is coordinated by the Institute. Courses are offered for CEUs to support Catechist, Youth Ministry and Lay Ecclesial Leadership Formation.

The Institute's overall mission is to reflect the Catholic Marianist identity of the University through education, consultative services, networking, applied pastoral research and multimedia catechetical productions and publications.

The Institute is currently focusing on research and teaching in the following areas:

1. The Forum for Young Catechetical Leaders
2. The Virtual Learning Community for Faith Formation (Internet)
3. Lay Ecclesial Leadership Formation
4. Religion, Spirituality and Film
5. Pastoral Communications and Ministry
6. New Paradigms for Adult Faith Formation
7. Advocacy for Persons with Disabilities within the Church
All interdisciplinary and experimental studies at the University of Dayton must involve University students and faculty, must be commensurate with University resources or resources accessible to the University, and must further the recognized goals and purposes of the University. When these studies involve disciplines within the College of Arts and Sciences or one of the Schools, they are administered by or through the offices of the respective deans. When they are University-wide, i.e., inter-school, they are usually administered by the Office of the Provost.
Marian Library/International Marian Research Institute

The Marian Library/International Marian Research Institute is recognized as the world's largest and most comprehensive collection of printed materials on Mary and as one of the world's leading centers for Marian studies.

The Marian Library aims to further study and research and to promote well-founded devotion to Mary. The library comprises a Marian collection-theological treatises, books on shrines, sermon collections, anthologies of Marian poetry-and a complementary reference collection in scripture, patristics, systematic and spiritual theology, history, religious art and general bibliography.

Established in 1943 by the Marianists at the University of Dayton, the Marian Library now holds over 100,000 books, journals and pamphlets in some 50 languages, as well as extensive collections of clippings from newspapers and magazines, postcards, holy cards and Christmas cards. The non-print media collections include video and audio cassettes, statues, nativity sets, Marian art slides, postage stamps, Marian medals, and recordings of Marian music.

One of the principal missions of the Marian Library is to be an international center of research and study in Marian theology and on the role of Mary in Christian life. Founded in 1975 at the University of Dayton in affiliation with the Pontifical Theological Faculty Marianum in Rome, the academic program offers the doctorate (S.T.D.) and licentiate (S.T.L.) in sacred theology; the master's degree in religious studies with a Marian concentration (in conjunction with the Religious Studies Department of the University of Dayton), a certificate in Marian studies, and a guided studies program. The academic program is organized in a three-year cycle, with courses taught in three sessions: summer, fall and spring. It serves a diverse, international student population: laity, religious and clergy, both men and women. While most students seek advanced degrees in theology with specialization in mariology, others simply wish to satisfy a personal interest in Marian studies.

The Marian Library provides guided tours for groups, a video loan program, circulation of books, interlibrary loan, reference services, conferences, workshops, and art exhibits. Four publications originate at the Marian Library: Marian Library Studies, a scholarly annual of original research; Marian Studies, the journal of the Mariological Society of America; "The Marian Library Newsletter," a newsletter reporting on Marian topics of current interest, the center's activities and book reviews; and Art and Spirituality, a series of brief monographs with the purpose of promoting personal meditation through religious art.

The Marian Library has developed the Mary Page Internet website, http://www.udayton.edu/mary with news, extensive resources on Mary and related topics, and seasonal meditations.
Office of Educational Services

The Office of Educational Services provides assistance to Catholic schools, public school districts, and other educational providers to enable school personnel to reach policy decisions based on relevant knowledge and value commitments. "Relevant knowledge" includes financial studies, needs assessments, attitude surveys, enrollment projections, and other information necessary for making intelligent decisions about specific policies. "Value commitments" include consideration of educational aims and ethical questions inherent in policy decisions. One of the priorities of the office is service to Catholic schools. Another is its effort to act as a network to link those who share / value concerns as they relate to educational policy-making. The office is located in, draws support from, and uses the resources of the School of Education and Allied Professions. For more information contact C. Daniel Raisch, Associate Dean, School of Education & Allied Professions at Dan.Raisch@notes.udayton.edu.
Prelaw

The Prelaw Program, designed to serve students from all areas of the University, provides those interested in law school with the opportunities to acquire the knowledge and skills necessary for a successful legal career. While students interested in careers in law should choose their undergraduate majors in accord with their interests and abilities, they should also contact the Prelaw Program as early in their undergraduate careers as possible so they can receive effective prelaw advice.

The Prelaw Program, with its twelve prelaw advisors, provides students with suggestions for courses that help develop skills needed for legal education, with information about the law school admission process, and with aid in taking the Law School Admission Test (LSAT) including simulated tests and prep courses. In addition, the Program sponsors a prelaw internship where students work at legal duties in an attorney's office, a mock trial program where students compete locally, regionally, and nationally, and personalized advising based on the individual student's talents, interests, and goals.

For further information concerning the Prelaw Program at the University of Dayton, students should contact the Prelaw Program secretary in Alumni Hall, Room 124.
Research Institute (UDRI)

The University includes research as one of its stated purposes. In addition to faculty members in academic departments, a large staff of research scientists, engineers, and technicians conduct basic and applied research. Most of these activities are externally funded and are conducted in the laboratories of the University of Dayton Research Institute.

Several hundred students are employed in research programs in accord with the University’s emphasis on integration of research and instruction. In addition to financial benefits, this research participation provides students with valuable experience and an exposure to issues at the forefront of contemporary science and engineering.
Reserve Officers Training Corps (ROTC)

The Department of Military Science offers the Army ROTC training program on campus, leading to a commission as a second lieutenant in the U.S. Army at the time of graduation. For more information, visit the Department of Military Science in Academic Information.
Study Abroad

Augsburg Exchange Program

Students in the School of Business Administration are eligible to participate in an exchange program with the University of Augsburg in Germany. About thirty business students spend eleven weeks each summer in Augsburg taking courses from both University of Dayton and University of Augsburg faculty. Classes are taught in English, although students are required to take an elementary German course before going to Augsburg. Students may reside in dormitories or apartment units or with host German families. Augsburg and Dayton are sister cities, and the sister city organizations facilitate cultural exchanges while students are in Augsburg. Students are given the opportunity to visit and have discussions with executives of German firms. In addition, several Augsburg students attend the University of Dayton during the regular semesters in the graduate program in business and assist with the exchange program.

Interdepartmental Summer Study Abroad Program

The Interdepartmental Summer Study Abroad Program (ISSAP) was established in 1972 to give students from all majors the opportunity to study and experience one or more foreign cultures. The program is open to anyone attending or eligible to attend the University of Dayton. The program sites vary from year to year. Students spend one month at a site with University of Dayton professors and may choose to attend one or two other sites. Various courses are offered at each site, and a variety of disciplines are represented each year. A two-site participant can complete a full semester of course work abroad.

In the past, ISSAP students have studied in Athens, Australia, Dublin, Florence, Fribourg, London, Madrid, Morocco, Munich, Paris, Rome, and Vienna, where they have taken courses in art history, business, communication, foreign languages, history, literature, music, philosophy, photography, political science, religious studies, science, sociology, and teacher education. For more information, contact the Office of Study Abroad.

Summer Study in Marburg, Germany

The Summer Study Program in Marburg, Germany provides a month-long experience of living and studying in a German setting. Students take two classes, one with German professors at a Language School in Marburg and another with the accompanying University of Dayton professor. Program participants live either in a dormitory or with families. One full-day excursion is planned for the group. Because students are expected to use German exclusively, completion of intermediate German or the equivalent is required.

Summer Study in Mexico

The Summer Study in Mexico Program provides an intensive, thirty-day program of immersion in Cuernavaca, where program participants live with Mexican families. Students take two courses with the accompanying University of Dayton professor and Spanish professors at the Cemanahuac Comunidad Educativa. Excursions outside Cuernavaca include a visit to Tepoztlán, Taxco, Xochicalco, Teotihuacán and Mexico City. This program is available to students who have completed elementary Spanish II or the equivalent.

Summer Study in Quebec

Summer Study in Quebec offers a five-week program of total immersion in Chicoutimi, situated in the beautiful Saguenay-Lac St. Jean region of Quebec. Program participants live with Francophone families. The academic program features intensive language courses at all levels that put emphasis on oral communication, as well as classes in Quebec culture; courses are taught by
faculty from the Université du Québec à Chicoutimi. In addition, students participate in workshops with qualified instructors that allow them to practice their linguistic skills while engaging in social, cultural, and sports activities. This program is available to students who have completed elementary French II or the equivalent.

**Summer Study in Segovia, Spain**

The Summer Study in Segovia Program is a thirty-day program of total immersion in a Spanish environment. The academic program includes intensive language study as well as courses in culture and literature. To complement their course work, students visit museums, theaters, palaces, and castles in and near Segovia and take tours to such historical sites as Madrid, Toledo, and El Escorial. This program, in which participants are required to use Spanish at all times, is available only to students who have completed intermediate Spanish II or the equivalent.
Women's Center

The Women's Center at the University of Dayton (937-229-5390) is an educational space that serves to enhance the climate for women and men on campus. Located on the second floor of Alumni Hall, the Center advances the full and active participation of women students, staff and faculty who learn and work at the University of Dayton, while promoting campus and community conversations on the role of women in society and the world. The Center accomplishes this mission by facilitating and coordinating programs and initiatives which: promote the physical and psychological well being of women through education, support services and referral; provide an ongoing assessment of the campus climate for women; promote the active and full participation of UD women through service, education, mentoring, networking and advocacy; inculcate leadership skills; address gender-related topics; provide information to the campus community on women's issues; provide a place to build a community of scholarship to advance research on women and gender; create a welcoming and safe space for persons of different racial, social, gender, religious, and cultural backgrounds; call women and men of all faiths to explore and incorporate faith-based living into their everyday lives. Connected, distinctive, and community-building, the UD Women's Center strives to promote equality, understanding and mutual respect and to foster a strong educational community in which women and men are supported, challenged and prepared to learn, lead, and serve. For more information on the UD Women's Center, visit http://womenscenter.udayton.edu.
University Honors Program

The University Honors Program provides curricular offerings, programming, and benefits to undergraduates who have superior academic records. Students earn the designation "University Honors student" in one of two ways. Entering first-year students with outstanding academic credentials are accepted into the Honors Program. Students who have achieved a 3.5 grade-point average and successfully completed a minimum number of Honors-designated courses at the end of their first or second years are also eligible to earn entrance into the University Honors Program. All University Honors students are expected to maintain at least a 3.5 grade-point average.

University Honors students are offered a wide selection of courses each term, ranging from special sections of General Education courses to senior-level seminars. While enrollment in Honors courses is not mandatory, in most instances first-year University Honors students will usually be placed in The Freshman Writing Seminar for Honors students (English 114), a semester course that substitutes for a two-semester English requirement for non-Honors students and that is enhanced by the annual Honors Author program. In addition, the University Honors Program sponsors numerous speakers, cultural events, and at least one symposium each year. University Honors students are also eligible to undertake, and potentially receive funding for, an Honors Thesis project. If they meet University Honors Program graduation requirements, students will earn an Honors Program-designated degree from the University of Dayton.

Special Honors housing is available for a limited number of University Honors students, and all University Honors students are guaranteed a place in U.D. housing during their undergraduate career. Upper-class University Honors students are eligible to apply for grants to support their professional and academic development, and all University Honors students receive special library privileges.

University Honors students completing at least sixty semester credit hours are eligible to apply to the Cordell W. Hull International Fellows Fund for University Honors students. Established in 1997-98, this fund awards grants to support international learning, leadership, and service projects.
The John W. Berry, Sr., Scholars Program is the University of Dayton's most selective and prestigious university-wide academic program. The Berry Scholars Program provides unique opportunities for academically gifted undergraduate students to develop their skills and talents in an intimate, supportive, collaborative, and leadership-oriented educational environment. Each year a maximum of 30 entering first-year students from the four undergraduate divisions—Arts and Sciences, Business Administration, Education, and Engineering—are selected from the pool of applicants. Participation in the program entitles these students to numerous benefits and privileges, including eligibility for the prestigious four-year, full-tuition John W. Berry, Sr. Honors Scholarship. The Berry Scholars Program curriculum consists of a sequence of six required Scholars Seminars, an Honors Thesis project, and an optional Senior Colloquium in Faith and Reason. In most instances the seminars fulfill University requirements and fit well into each student's regular course of study. The Honors Thesis is a major research or service-learning project selected by the student in their junior year and completed, with the assistance of a faculty advisor or advisors, before graduation. Honors Thesis grants are available to support research-related expenses. Berry Scholars also participate in required Leadership in Community and Service Programs, engage in required and supported international learning, and maintain a 3.5 or better grade-point average.
Directories

Please select a subsection using the menu to the right.
Governing and Advisory Bodies

Board of Trustees


Educational Leadership Council


Academic Senate


Student Life Council

## Officers of the University

<table>
<thead>
<tr>
<th>Office of the University</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Daniel J. Curran</td>
</tr>
<tr>
<td>Provost and Senior Vice President for Educational Affairs</td>
<td>Fred P. Pestello</td>
</tr>
<tr>
<td>Provost for Finance and Administrative Services</td>
<td>Thomas E. Burkhardt</td>
</tr>
<tr>
<td>Vice President for Student Development and Dean of Students</td>
<td>William C. Schuerman</td>
</tr>
<tr>
<td>Vice President for University Advancement</td>
<td>Frances W. Evans</td>
</tr>
<tr>
<td>Vice President for Research</td>
<td>Gordon A. Sargent</td>
</tr>
<tr>
<td>Vice President and Director of Athletics</td>
<td>Theodore L. Klassell</td>
</tr>
<tr>
<td>Vice President for Human Resources</td>
<td>Patricia J. Whitney</td>
</tr>
<tr>
<td>Vice President for Enrollment Management</td>
<td>Robert E. Johnson</td>
</tr>
<tr>
<td>Rector</td>
<td>Eugene Contadino, S.M.</td>
</tr>
<tr>
<td>Director, Campus Ministry</td>
<td>Christopher T. Wittmann, S.M.</td>
</tr>
</tbody>
</table>

## Office of the President

<table>
<thead>
<tr>
<th>Office of the President</th>
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</thead>
<tbody>
<tr>
<td>President</td>
<td>Daniel J. Curran</td>
</tr>
<tr>
<td>Rector</td>
<td>Eugene Contadino, S.M.</td>
</tr>
<tr>
<td>Executive Director, President's Office</td>
<td>Lynnette Heard</td>
</tr>
<tr>
<td>Administrative Assistant to the President</td>
<td>Jane Perrich</td>
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## Academic Affairs

<table>
<thead>
<tr>
<th>Academic Affairs</th>
<th>Name</th>
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<tbody>
<tr>
<td>Provost and Senior Vice President for Educational Affairs</td>
<td>Fred P. Pestello</td>
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<tr>
<td>Executive Assistant to the Provost</td>
<td>Kathleen D. Henderson</td>
</tr>
<tr>
<td>Human Resources Generalist, Academics</td>
<td>Troy W. Washington</td>
</tr>
<tr>
<td>Vice President for Enrollment Management</td>
<td>Robert E. Johnson</td>
</tr>
<tr>
<td>Director of Admission</td>
<td>Robert F. Durkle</td>
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<tr>
<td>Director of Scholarships and Financial Aid</td>
<td>Joyce J. Wilkins</td>
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<tr>
<td>Associate Director of Student Scholarships</td>
<td>Julia K. Harmon</td>
</tr>
<tr>
<td>Registrar</td>
<td>Thomas J. Westendorf</td>
</tr>
<tr>
<td>Associate Registrar-Registration</td>
<td>Patsy L. Martin</td>
</tr>
<tr>
<td>Vice President for Research</td>
<td>Gordon A. Sargent</td>
</tr>
<tr>
<td>Associate Vice President for Research and Director, UDRI</td>
<td>Michael V. McCabe</td>
</tr>
<tr>
<td>Associate Provost for Academic Affairs and Learning Support and Director, Ryan C. Harris Learning-Teaching Center</td>
<td>Deborah J. Bickford</td>
</tr>
<tr>
<td>Executive Director, Career Services Center</td>
<td>Gregory D. Hayes</td>
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<tr>
<td>Associate Director, Cooperative Education</td>
<td>Nancy K. Forthofer</td>
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<tr>
<td>Director, Center for International Programs</td>
<td>Faiza W. Shereen</td>
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<tr>
<td>Associate Director, Study Abroad</td>
<td>Open</td>
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<tr>
<td>Coordinator, International Student Services</td>
<td>Samuel W. Lockhart</td>
</tr>
<tr>
<td>Director, English Language and Multicultural Institute (ELMI)</td>
<td>Clara S. Delgado</td>
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<tr>
<td>Director, Honors and John W. Berry Sr. Scholars Programs</td>
<td>Steven P. Dandaneau</td>
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<tr>
<td>Associate Director</td>
<td>Jayne B. Robinson</td>
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<tr>
<td>Director, Learning Enhancement and Academic Development (LEAD)</td>
<td>Timothy King</td>
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<tr>
<td>Academic Coordinator for Student Athletes</td>
<td>Vera Gomes</td>
</tr>
<tr>
<td>Coordinator, Service-Learning</td>
<td>Gabrielle R. Williamson</td>
</tr>
<tr>
<td>Interim Director, ArtStreet</td>
<td>Melinda A. Simon</td>
</tr>
<tr>
<td>Associate Provost and CIO</td>
<td>Thomas D. Skill</td>
</tr>
</tbody>
</table>
Director, Business Information Systems
Director, IT Infrastructure
Director, Student Information Systems
Director, Systems Integration and Operations
Director, Curriculum Innovation and E-Learning
Director, Educational IT Operations
Director, Internet Development Division & Web Partnership
Director, Technology Support Services
Associate Provost for Faculty and Administrative Affairs

Financial Analyst
Dean, College of Arts and Sciences
Associate Dean for Connected Learning
Associate Dean for Humanities and Fine Arts
Associate Dean for Sciences and Social Sciences
Associate Dean for Financial, Information, and Data Analysis
Assistant Dean for Humanities and Fine Arts
Assistant Dean for Sciences and Social Sciences
Assistant Dean for Special Programs and Continuing Education
Director, Raymond L. Fitz, S.M. Center for Leadership in Community
University Professor of Faith and Culture and Chancellor
Director, Program for Christian Leadership
Acting Director, Information Technology
Dean, School of Business Administration
Associate Dean for Graduate Programs and Faculty Development
Associate Dean for Undergraduate Programs and Information Technology
Director, Undergraduate Programs
Director, MBA Program
Director, International Business Programs
Director, Assessment
Director, Richard P. and Susan P. Davis Center for Portfolio Management
Director, L. William Crotty Center for Entrepreneurial Leadership
Executive Director, Business Outreach and Leadership
Director, Business Research Group
Director, External Relations
Director, Information Technology

Dean, School of Education and Allied Professions
Associate Dean for Administration
Associate Dean for Community Outreach
Assistant Dean for Program Development
Director, Center for Catholic Education
Director, Bombeck Family Learning Center
Director, Office of Information Technology

Dean, School of Engineering
Associate Dean of Graduate Engineering Programs and Research
Associate Dean for Undergraduate Engineering Programs
Associate Dean for Continuing Education and Director, Center for Competitive Change
Manager, Engineering Computing and Information Services

Interim Dean, Graduate School
Interim Assistant Dean and Coordinator of International Graduate Initiatives
Assistant to the Dean
Dean, School of Law
Associate Dean, Academic Affairs
Assistant Dean, Student Affairs
<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Assistant Dean, External Relations and Financial Aid</td>
<td>Timothy P. Stonecash</td>
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<tr>
<td>Assistant Dean and Director, Career Services</td>
<td>Janet L. Hein</td>
</tr>
<tr>
<td>Director, Law Library</td>
<td>Timothy G. Swensen</td>
</tr>
<tr>
<td>Manager, Information Technology</td>
<td>Thomas L. Hanley</td>
</tr>
<tr>
<td>Interim Dean, University Libraries and Information Services and Head, Collection</td>
<td>Margaret Thomas</td>
</tr>
<tr>
<td>Head, Bibliographic Management</td>
<td>Fred W. Jenkins</td>
</tr>
<tr>
<td>Head, Client Services</td>
<td>Emily A. Hicks</td>
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<tr>
<td>Head, Library Information Technologies</td>
<td>Kathleen M. Webb</td>
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<tr>
<td>Curator, Rare Books and Special Collections</td>
<td>Frances E. Rice</td>
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<tr>
<td>Collections</td>
<td>Nicolletta C. Hary</td>
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<tr>
<td>Director-Curator, Marian Library</td>
<td>Thomas A. Thompson, S.M.</td>
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<tr>
<td>Director, Institute for Pastoral Initiatives</td>
<td>Angela A. Zukowski, M.H.S.H.</td>
</tr>
<tr>
<td>Director, Marian Library/International Marian Research Institute (IMRI)</td>
<td>Johann G. Roten, S.M.</td>
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### Academic Departments

<table>
<thead>
<tr>
<th>Department</th>
<th>Chairpersons</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>Ron J. Burrows</td>
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<tr>
<td>Biology</td>
<td>John J. Rowe</td>
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<tr>
<td>Chemical and Materials Engineering</td>
<td>Tony E. Saliba</td>
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<tr>
<td>Chemistry</td>
<td>(Interim) David W. Johnson</td>
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<tr>
<td>Civil and Environmental Engineering and Engineering Mechanics</td>
<td>(Acting) Fred K. Bogner</td>
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<tr>
<td>Communication</td>
<td>Kathleen B. Watters</td>
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<tr>
<td>Computer Science</td>
<td>James P. Buckley</td>
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<tr>
<td>Counselor Education and Human Services</td>
<td>Thomas W. Rueth</td>
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<tr>
<td>Economics and Finance</td>
<td>Elizabeth F. Gustafson</td>
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<tr>
<td>Educational Leadership</td>
<td>Joseph D. Massucci</td>
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<tr>
<td>Electrical and Computer Engineering</td>
<td>Partha P. Banerjee</td>
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<tr>
<td>Engineering Management and Systems</td>
<td>Edward F. Mykytka</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>Scott I. Segalewitz</td>
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<tr>
<td>English</td>
<td>Brian P. Conniff</td>
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<tr>
<td>Geology</td>
<td>Donald L. Pair</td>
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<tr>
<td>Health and Sport Science</td>
<td>Paul M. VandeBAUGH</td>
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<td>History</td>
<td>Julius A. Amin</td>
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<td>Languages</td>
<td>Arthur D. Mosher</td>
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<td>Management and Marketing</td>
<td>Dean B. McFarlin</td>
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<tr>
<td>MIS, Operations Management and Decision Sciences</td>
<td>Charles E. Wells</td>
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<td>Mathematics</td>
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<tr>
<td>Mechanical and Aerospace Engineering</td>
<td>Kevin P. Hallinan</td>
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<td>Military Science</td>
<td>Versailles F. Washington</td>
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<tr>
<td>Music</td>
<td>Donna M. Cox</td>
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<tr>
<td>Philosophy</td>
<td>Paul H. Benson</td>
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<tr>
<td>Physics</td>
<td>J. Michael O'Hare</td>
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<tr>
<td>Political Science</td>
<td>Christopher M. Duncan</td>
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<td>Psychology</td>
<td>David W. Biers</td>
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<tr>
<td>Religious Studies</td>
<td>Sandra A. Yocum Mize</td>
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<tr>
<td>Sociology, Anthropology, and Social Work</td>
<td>H. Frances Geyer Pestello</td>
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<tr>
<td>Teacher Education</td>
<td>Kathryn A. Kinnucan-Welsch</td>
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<tr>
<td>Visual Arts</td>
<td>Fred Niles</td>
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### Academic Programs

<table>
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<tr>
<th>Program</th>
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<tbody>
<tr>
<td>American Studies</td>
<td>Una M. Cadegan</td>
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<tr>
<td>Criminal Justice Studies</td>
<td>James A. Adamitis</td>
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<tr>
<td>Dietetics</td>
<td>Patricia E. Dolan</td>
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<tr>
<td>Electro-Optics</td>
<td>Joseph W. Haus</td>
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<tr>
<td>International Studies and Human Rights Studies</td>
<td>Mark Ensalaco</td>
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<tr>
<td>Prewlaw</td>
<td>R. Alan Kimbrough</td>
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<tr>
<td>Premedical Programs</td>
<td>John E. Erdei</td>
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<tr>
<td>Theatre</td>
<td>Darrell F. Anderson</td>
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<tr>
<td>Women's Studies</td>
<td>Sheila Hassell-Hughes</td>
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### University Libraries

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Interim Dean, University Libraries</td>
<td>Fred W. Jenkins</td>
</tr>
<tr>
<td>Head, Client Services</td>
<td>Kathy Webb</td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/content.ud?v=6&p=1225&c=1226 7/10/2012
Coordinator of Access Services
Coordinator of Building Services
Coordinator of Reference & Instruction
Head, Collection Management
Head, Bibliographic Management
University Archivist
Director, Marian Library

William Sees
James Blair
Open
Fred Jenkins
Emily Hicks
Kerrie Cross
Thomas A. Thompson, SM

Research

Vice President for Research
Associate Vice President for Research and Director, Research Institute
Associate Director for Research Operations
Division Head, Aerospace Mechanics
Division Head, Energy and Environmental Engineering
Division Head, Materials Engineering
Division Head, Metals and Ceramics
Division Head, Nonmetallic Materials
Division Head, Structural Integrity
Sustainability Technologies Integration
Assistant to the Director
Associate Director for Contracts and Grants
Contracts and Grants Administrator
Government Security
Purchasing Agent & Property Administrator
Controller
Accounting Administrator
Research Computing Services Administrator
Office of Human Resources
Director of Technology Partnerships
Website and Information Services Administrator

Gordon A. Sargent
Michael V. McCabe
John E. Leland
Michael P. Bouchard
Dilip R. Ballal
Peter O. Sjoblom
John A. Detrio
Allan S. Crasto
Robert J. Andrews
Michael Drake
Diana M. Muilenkamp
Robert P. Boehmer
Claudette M. Groeber
Robert P. Boehmer
Jon J. Borgwardt
John U. Weckesser
Karen L. Smith
Frank R. Beitel
Mary Ann Dodaro
Larrell B. Walters
Julia K. Phelps

Campus Ministry

Director
Assistant Director, Residence Life
Assistant Director, Director of Center for Social Concern
Director of Retreats and Faith Communities
Campus Ministers

Christopher T. Wittmann, S.M.
Crystal Sullivan
Nicholas Cardillo
Nicole D' Cruz
Phil Aaron, S.M.
Gerald Chinchar, S.M.
Christopher Conlon, S.M.
Yolanda Copeland
Bridget Ebbert
Mary Louise Foley, F.M.I.
Sophia Henrichs
Linda L. Jackson, O.P.
Mary Theresa Lauer
Margaret Matley
Mary Niebler
Thomas Pieper, S.M.
Kathleen Rossman, O.S.F.
Andrea Stiles
Allen Stock
Patti Stock
Emily Strand

Finance and Administrative Services

Vice President for Finance and Administrative Services
Internal Auditor
Investment Officer
Comptroller
Director of Student Accounts/Bursar
Director of Purchases & Business Services
Executive Director of Facilities Management
Director Facilities Planning
Assistant Director of Facilities Planning and Construction Management

Thomas E. Burkhardt
Ann M. Garcia
Delanie S. Molier
Thomas J. Weckesser
David Necessary
Ken R. Soucy
Richard G. Perales
Beth H. Keyes
Leslie A. Groesbeck
Assistant Director for Operations: Russell A. Potyrala
Grounds Manager: E. Roger Banks
Environmental Safety Administrator/Risk Manager: Robin L. Oldfield
Director of Legal Affairs/University Counsel: John E. Hart
Staff Attorney: Lisa A. Sandner
Director of Institutional Studies: Patricia Bernal-Olson
Research Assistant: Patricia P. Detzel
Special Assistant to the Vice President: Susan K. Sexton

Human Resources
Vice President for Human Resources: Patricia J. Whitney
Human Resources Generalist, Student Development and Facilities Management: Charles E. Chamberlain
Staffing Manager: Dion Bracey
Human Resources Generalist, Academics: Troy Washington
Human Resources Generalist, Research Institute: Mary Ann Dodaro
Human Resources Generalist, Administration, Advancement and Athletics: Lee Morgan
Director of Compensation and Benefits: Kathy Molnar
Benefits Manager: Beth Schwartz
Compensation Manager: Jeannie Perry
Learning and Development Manager: Celine O'Neill
Human Resources Systems Manager: Linda Nianouris

Student Development
Vice President for Student Development and Dean of Students: William C. Schuerman
Assistant Dean of Students: Rosemary T. O'Boyle
Assistant to the Vice President: Susan R. Dempsey
Assistant Vice President and Associate Dean of Students: Carol Cummins-Collier
Executive Director, Counseling and Health Services: Steven D. Mueller
Medical Director: Mary P. Buchwalder, M.D.
Director, Dining Services: Paula H. Smith
Director, Diverse Student Populations: Monica Y. Adkins
Executive Director, Public Safety: Bruce E. Burt
Director, Recreational Sports: Billy R. Mayo
Executive Director, Residential Services: Craig A. Schmitt

University Advancement
Vice President for University Advancement: Frances W. Evans
Executive Assistant to the Vice President: Karla T. Brooks
Associate Vice President Development: William F. Shockley
Associate Vice President Public Relations: Teri J. Rizvi
Assistant Vice President for Advancement Services: Susan T. Sauer
Assistant Vice President for Alumni Relations: William E. Hunt

Athletic Programs and Facilities
Vice President/Director of Athletics: Ted Kissell
Exec Assistant to the Director: Debbie Seaman
Associate Vice President of Athletics: Tim Wabler
Assistant to the Associate Vice President of Athletics: Christine Kraft
Associate Director of Athletics/Director of Compliance/Senior Woman Administrator: Cindy Hartmann
Associate Director of Athletics/Student-Athlete Services: Joe Owens
Associate Director of Athletics/Director of UD Arena: Tim O'Connell
Assistant Director of Athletics/Director of Ticketing Services: James Brothers
Assistant Director of Athletics/Frericks Ctr. Equipment: Ken Keck
Academic Counselor: Christine Moeller
Academic Counselor: Vera Gomes
<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Sports Information Director</td>
<td>Doug Hauschild</td>
</tr>
<tr>
<td>Assistant Director of Athletics/Communications</td>
<td>Kevin Wilkinson</td>
</tr>
<tr>
<td>Strength &amp; Conditioning Coach</td>
<td>Mark Thobe</td>
</tr>
<tr>
<td>Director of Corporate Sales &amp; Development</td>
<td>Todd Muckerheide</td>
</tr>
<tr>
<td>Assistant Ticket Office Director</td>
<td>Maggie Snider</td>
</tr>
<tr>
<td>Director of Men's Basketball Season Tickets</td>
<td>Gary McCans</td>
</tr>
<tr>
<td>Assistant Athletics Business Manager</td>
<td>Margaret Gant</td>
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<tr>
<td>Baseball Coach</td>
<td>Tony Vittorio</td>
</tr>
<tr>
<td>Assistant Coach</td>
<td>Todd Linklater</td>
</tr>
<tr>
<td>Men's Head Basketball Coach</td>
<td>Brian Gregory</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Mo Casarra, Mike Jackson, Billy Schmidt</td>
</tr>
<tr>
<td>Basketballs Operations Coordinator</td>
<td>Jon Borovich</td>
</tr>
<tr>
<td>Women's Head Basketball Coach</td>
<td>Jim Jabir</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Jill Rooney, Stacie Terry, Greg Williams</td>
</tr>
<tr>
<td>Basketball Operations Coordinator</td>
<td>Frank Goldsberry</td>
</tr>
<tr>
<td>Basketball Strength &amp; Conditioning Coach</td>
<td>Daniel Shapiro</td>
</tr>
<tr>
<td>Men's Cross Country Coach</td>
<td>Rich Davis</td>
</tr>
<tr>
<td>Women's Cross Country Coach/Assistant</td>
<td>Ann Akynak</td>
</tr>
<tr>
<td>Women's Track &amp; Field Coach</td>
<td>D'Andre Hill</td>
</tr>
<tr>
<td>Head Football Coach</td>
<td>Mike Kelly</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Dave Whilding, Rick Chamberlin, Chris Ochs</td>
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<tr>
<td>Men's &amp; Women's Head Golf Coach</td>
<td>Brad Smith</td>
</tr>
<tr>
<td>Women's Asst Golf Coach</td>
<td>Sally Kosters</td>
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<tr>
<td>Men's Head Soccer Coach</td>
<td>Dave Schureck</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Alejandro Aldaz, Jason Higgins</td>
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<tr>
<td>Women's Head Soccer Coach</td>
<td>Mike Tucker</td>
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<tr>
<td>Assistant Coaches</td>
<td>Amy Berbary, Manoj Khettry</td>
</tr>
<tr>
<td>Head Softball Coach</td>
<td>Jodi Eickemeyer</td>
</tr>
<tr>
<td>Men's Tennis Coach</td>
<td>Steve Brumbaugh</td>
</tr>
<tr>
<td>Women's Tennis Coach</td>
<td>Mike Unger</td>
</tr>
<tr>
<td>Head Volleyball Coach</td>
<td>Tim Horsmon</td>
</tr>
<tr>
<td>Assistant Coach</td>
<td>Tamí Ores</td>
</tr>
<tr>
<td>Head Trainers</td>
<td>Steve Foster</td>
</tr>
<tr>
<td>Assistant Trainers</td>
<td>Nate Seymour, Nicole Chimera, Sara Zickgraf</td>
</tr>
<tr>
<td>Equipment &amp; Awards Manager</td>
<td>Tony Caruso</td>
</tr>
<tr>
<td>Sr. Development Officer for Intercollegiate Athletics</td>
<td>Chris Delisio</td>
</tr>
<tr>
<td>Faculty Athletics Representative</td>
<td>J. Michael O'Hare, Ph.D.</td>
</tr>
</tbody>
</table>
Faculty

PAST PRESIDENT


DEANS EMERITI


Gould, Sam (1985), Management and Marketing, Professor - B.S., The Ohio State University, 1965; M.B.A. University of Colorado, 1970; Ph.D., Michigan State University, 1975.


PROFESSORS EMERITI


Back, Stanley J. (1959), Mathematics - B.S., University of Dayton, 1957; M.S., Purdue University, 1959.


Bohlen, George A. (1980), Management Information Systems and Decision Sciences - B.S.M.E., Clemson University, 1958; M.S.I.E., Purdue University, 1963; M.S.B.A., George Washington University, 1968; Ph.D., Purdue University, 1973.


Chuang, Henry N. (1965), Mechanical and Aerospace Engineering - B.S., National Taiwan University, 1958; M.S., University of Maryland, 1962; Ph.D., Carnegie Institute of Technology, 1966. Reg. Prof. Engr.


Comer, Orville L. (1950), Marketing - B.S., Washington University, 1948; M.S., 1949.


Drees, Doris A. (1956), Health & Sport Science - B.S., University of Dayton, 1956; M.A., The Ohio State University, 1959; Ph.D., University of Iowa, 1968.


Eveslage, Sylvester L. (1948), Chemistry - B.S., University of Notre Dame, 1944; M.S., 1945; Ph.D., 1953.


Fost, Roberta S. (1969), History - B.A., University of California, 1964; M.A., University of Chicago, 1966; Ph.D., 1974


Ferricks, Donald J. (1978), Educational Leadership - B.S., University of Dayton, 1956; M.A., Miami University, 1958; Ph.D., The Ohio State University, 1970.


Frye, Helen B. (1967), Teacher Education - B.A., Ohio Wesleyan University, 1944; M.Ed., Wittenberg University, 1962; Ph.D., The Ohio State University, 1967.

Gantner, Thomas E. (1966), Mathematics - B.S., University of Dayton, 1962; M.S., Purdue University, 1964; Ph.D., 1966.


George, Norman (1962), Law - The Ohio State University, 1950; M.B.A., University of Pittsburgh, 1954; Ph.D., The Ohio State University, 1962; J.D., Salmon Chase College, 1967.


Graham, Thomas P. (1964), Physics - B.S., Providence College, 1956; Ph.D., Iowa State University, 1967.


Harwood, Philip J. (1966), Communication, Associate Professor - B.S., Butler University, 1960; M.S., 1961; Ph.D., Ohio University, 1972.


Kepes, Joseph J. (1962), Physics - B.S., Case Institute of Technology, 1953; Ph.D., University of Notre Dame, 1958.


Klosterman, Rita (1960), Teacher Education - B.A., Immaculate Heart College, 1942; M.A., St. John's College, 1956; Ph.D., Indiana University, 1968.


Laufersweiler, Joseph D. (1963), Biology - B.S., University of Notre Dame, 1952; M.Sc., The Ohio State University, 1954; Ph.D., 1960.


Lestingi, Joseph (1992), Mechanical and Aerospace Engineering - B.C.E., Manhattan College, 1957; M.S., Virginia Polytechnic Institute, 1959; D.Eng., Yale University, 1966.


Maras, Raymond J. (1959), History - B.A., University of California, 1946; M.A. Catholic University of America, 1948; Ph.D., University of California, 1955.


Morlan, Don B. (1977), Communication - B.S., Indiana State University, 1962; M.S., University of Notre Dame, 1965; Ph.D., University of Cincinnati, 1965.


Morian, Don B. (1977), Communication - B.S., Indiana State University, 1962; M.S., 1965; Ph.D., Purdue University, 1969.


Palmert, Julia Ann (1975), Health and Sport Science - B.S., University of Dayton, 1952; M.S., The Ohio State University, 1953. R.D., L.D.


Patyk, Josef (1963), Political Science - Certificate, School of Public Administration, Poland, 1935; LL.M., Jagiellonski University, 1945; Ph.D., University of Colorado, 1965.


Ramsey, James M., (1964), Biology - B.S., Wilmington College, 1948; M.S., Miami University, 1951.


Rice, Bernard J. (1980), Mathematics - B.S., St. Louis University, 1955; M.S., The Ohio State University, 1961.


Schroeder, Elizabeth (1950), Human Ecology - B.S., College of Mt. St. Joseph-on-the-Ohio, 1942; M.S., The Ohio State University, 1958.


Steiner, Wilfred J. (1946), History - A.B., Loras College, 1936; M.A., Harvard University, 1938; Ph.D., The Ohio State University, 1957.


Tsui, Susan L., (1965), Library - B.A., National Taiwan University, 1961; M.S.L.S., University of Illinois, 1954.


Young, Saul (1983), Management Information Systems and Decision Sciences - B.A., University of Texas, 1962; M.S., University of Wisconsin, 1969; Ph.D., Stanford University, 1975.


DIRECTOR OF ADMISSION EMERITUS


REGISTRAR EMERITUS

DISTINGUISHED SERVICE PROFESSORS


Bohlen, George A. (1980), Management Information Systems and Decision Sciences - B.S.M.E., Clemson University, 1958; M.S.I.E., Purdue University, 1963; M.S.B.A., George Washington University, 1968; Ph.D., Purdue University, 1973.

Drees, Doris A. (1956), Health and Sport Science - B.S., University of Dayton, 1956; M.A., The Ohio State University, 1959; Ph.D., University of Iowa, 1968.


George, Norman (1962), Law - The Ohio State University, 1950; M.B.A., University of Pittsburgh, 1954; Ph.D., The Ohio State University, 1962; J.D., Salmon Chase College, 1967.


Lucier, John J., S.M. (1945), Chemistry - B.S., University of Dayton, 1937; M.S., Western Reserve University, 1950; Ph.D., 1951.

Noland, George B. (1955), Biology - B.S., University of Detroit, 1950; M.S., 1952; Ph.D., Michigan State University, 1955.

Peterson, Richard E. (1957), Mathematics - B.A., Hiram College, 1955; M.S., Purdue University, 1957.

Ryckman, Seymour J. (1959), Civil and Environmental Engineering and Engineering Mechanics - B.S., Michigan State University, 1939; M.S., University of Missouri, 1942; Reg. Prof. Engr.


Schraut, Kenneth C. (1940), Mathematics - A.B., University of Illinois, 1938; M.A., University of Cincinnati, 1938; Ph.D., 1940.


DISTINGUISHED TEACHING PROFESSOR


RANKED FACULTY AND INSTRUCTIONAL STAFF

Aaron, Philip T., S.M. (1979), Campus Ministry, Administrative - B.S., University of Dayton, 1954; M.S., St. Louis University, 1964; Ph.D., Case Western Reserve University, 1973.

Abueida, Atif A. (2000), Mathematics, Assistant Professor - B.S., United Arab Emirates University, 1987; M.S., East Tennessee State University, 1995; Ph.D., Auburn University, 2000.


Ahoujja, Mohamed (2001), Physics, Assistant Professor - B.A., Kenyon College, 1990; M.S., University of Cincinnati, 1993; Ph.D., 1996.


Barnes, Michael H. (1968), Religious Studies, Professor - A.B., St. Louis University, 1961; Ph.L., 1962; Ph.D., Marquette University, 1976.

Baxley, Frank O. (2002), Electro-Optics, Adjunct Assistant Professor - B.S., Miami University, 1974; M.S., 1976; M.B.A., The Ohio State University, 1985; Ph.D., University of Dayton, 2001.

Beal, Kathleen G. (2001), Biology, Lecturer - B.S., Ohio Dominican College, 1973; M.S., The Ohio State University, 1975; Ph.D., 1978; M.S., Wright State University, 1987.

Becker, Paul J. (2002), Sociology, Anthropology, and Social Work, Assistant Professor - B.S., Indiana State University, 1987; M.S., 1989; Ph.D., Bowling Green State University, 1996.


Benin, Vladimir A. (2001), Chemistry, Assistant Professor - B.S., University of Sofia, 1990; M.S., Vanderbilt University, 1993; Ph.D., 1995.


Bower, Samuel M. (1965), Psychology, Associate Professor - B.A., Mexico City College, 1957; Ph.D., Vanderbilt University, 1963.

Bowers, Jeanne (1993), English Language and Multicultural Institute, Administrative - B.A., California State University, Sacramento, 1974; M.S., 1977.


Brady, Thomas J. (1981), Accounting, Associate Professor - B.S., New York University, 1966; M.B.A., Adelphi University, 1968; Ph.D., St. Louis University, 1981.

Bremer, C. Jayne (2000), Health & Sport Science, Assistant Professor - B.S., Montana State University, 1980; M.S., Washington State University, 1993; Ph.D., 1998.


Brar, Nahhatter S. (1986), Mechanical and Aerospace Engineering, Associate Professor - B.S., University of the Punjab, 1962; M.S., 1965; M.S., Trent University, 1971; Ph.D., University of Western Ontario, 1973.

Brecker, Robert J. (1993), Physics, Associate Professor - B.S., Wright State University, 1983; Ph.D., University of Texas at Austin, 1990.

Breitwisch, Randall J. (1988), Biology, Associate Professor - B.S., University of Miami, 1973; M.S., 1977; M.B., University of Michigan, 1982; Ph.D., University of Miami, 1987.


Browning, Charles E. (1976), Materials Engineering, Adjunct Professor - B.S., West Virginia University, 1966; M.S., Wright State University, 1970; Ph.D., University of Dayton, 1976.

Buckley, David M. (1968), Library, Associate Professor - B.A., Miami University, 1966; M.A.L.S., Western Michigan University, 1968; M.A., University of Dayton, 1975.


Bueche, Frederick J. (1961), Physics, Distinguished Professor at Large - B.S., University of Michigan, 1944; Ph.D., Cornell University, 1948.


Burky, Albert J. (1973), Biology, Professor - B.A., Hartwick College, 1964; Ph.D., Syracuse University, 1969.


Burrows, Ron J. (1981), Accounting, Associate Professor - B.S., Northern Illinois University, 1965; M.S., 1968; Ph.D., Pennsylvania State University, 1980.


Carrillo, Albino (2003), English, Assistant Professor - B.A., University of New Mexico, 1986; M.F.A., Arizona State University, 1993.


Castellano, Joseph F. (1999), Accounting, Professor - B.S., St. Louis University, 1964; M.S., 1965; Ph.D., 1971.


Chen, Rong-chin Carl (1977), Economics and Finance, Professor, William J. Hohen Research Scholar in International Business - B.A., National Taiwan University, 1969; M.S., Auburn University, 1973; Ph.D., University of Georgia, 1977.


Chiodo, Andria J. (1968), Languages, Assistant Professor - B.A., University of Oregon, 1966; M.A., 1968.

Chuck, Leon (1989), Mechanical and Aerospace Engineering, Assistant Professor - B.S., University of Maryland, 1976; M.S., 1984.

Church, Kevin M. (1990), Chemistry, Associate Professor - B.S., University of Nebraska, 1982; M.S., University of Nebraska Medical Center, 1985; Ph.D., 1988.


Conniff, Brian P. (1990), English, Professor - B.A., Rutgers University, 1978; M.A., University of Scranton, 1980; Ph.D., University of Notre Dame, 1984.


Conte, Francis J. (1987), Law, Professor - B.A., Pennsylvania State University, 1964; J.D., University of Texas, 1969.

Crec, Rebecca Ann (2002), Counseling Center, Administrative - B.S., Purdue University, 1976; M.S., Indiana University, 1990; Ph.D., University of Memphis, 2002.


Craver, Bruce A. (1978), Physics, Associate Professor - B.S., Purdue University, 1969; M.S., 1971; Ph.D., 1976.

Crist, Maria Perez (1989), Law, Professor of Lawyering Skills - B.A., Northwestern University, 1978; J.D., University of Michigan, 1981.


Cusella, Louis P. (1985), Communication, Professor - B.A., Kent State University, 1971; M.A., The Ohio State University, 1974; Ph.D., Purdue University, 1978.


Darrow, David (1996), History, Assistant Professor - B.A., University of Northern Iowa, 1986; M.A., University of Iowa, 1988; Ph.D., 1996.


Davis-Berman, Jennifer L. (1966), Sociology, Anthropology, and Social Work, Professor - B.S., Denison University, 1979; M.S.W., The Ohio State University, 1982; Ph.D., 1985.


Delgado, Clara S. (1993), Director, English Language and Multicultural Institute, Administrative - B.A., Murray State University, 1974; M.A., Wright State University, 1984.

De Luca, Barbara M. (1975), Educational Leadership, Associate Professor - B.S., University of Dayton, 1971; M.Ed., Miami University, 1975; Ph.D., The Ohio State University, 1984.


Demmitt, Alan (1996), Counselor Education and Human Services, Associate Professor - B.Th., Atlanta Bible College, 1982; M.A., Northeast Louisiana University, 1991; Ph.D., Iowa State University, 1994.


Dirollo, John H. (1967), Health Center, Administrative - B.S., University of Dayton, 1959; M.D., Marquette University School of Medicine, 1963.

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Institution</th>
<th>Year(s)</th>
</tr>
</thead>
</table>

Elvers, Greg C. (1990), Psychology, Associate Professor - B.S., Purdue University, 1984; B.A., 1985; M.S., 1987; Ph.D., 1989.


Evwaraye, Andrew O. (1995), Physics, Professor - B.S., University of Dayton, 1964; Ph.D., University of Saskatchewan, 1969.

Fackovec, William M., S.M. (1960), Library, Associate Professor - B.S.Ed., University of Dayton, 1949; M.S.L.S., Western Reserve University, 1959.


Ewvaraye, Andrew O. (1995), Physics, Professor - B.S., University of Dayton, 1964; Ph.D., University of Saskatchewan, 1969.

Fackovec, William M., S.M. (1960), Library, Associate Professor - B.S.Ed., University of Dayton, 1949; M.S.L.S., Western Reserve University, 1959.


Ferguson, Susan M. (1990), Teacher Education, Program Coordinator - B.S., University of Dayton, 1975; M.S., 1982.


Flanagan, Melissa T. (1988), Philosophy, Associate Professor - B.A.,
University of Iowa, 1975; M.A., University of Chicago, 1983; Ph.D.,

Flaute, Daniel C. (1986), Economics and Finance, Professor - B.A.,
University of Dayton, 1985; B.S.Ed., 1985; M.S., Syracuse
University, 1987; M.B.A., University of Pittsburgh, 1989; D.B.A., Boston
University, 1996.

Flannery, Joseph P. (1998), Philosophy, Associate Professor - B.S.C.E.,
University of Dayton, 1996; B.S., 1996; M.S., 2000; Ph.D.,
2004.

Gardstrom, Susan C. (1998), Music, Assistant Professor - B.M.,
Michigan State University, 1981; M.A, Western Michigan University, 1985; Ph.D.,

Garten, Rev. Edward D. (1985), Library, Professor - B.S., Concord
College, 1968; M.A., M.Div., in consortium, Pontifical College
Josephinum, The Ohio State University, and Methodist Theological
School in Ohio, 1972; M.L.S., Kent State University, 1974; Ph.D.,
University of Toledo, 1977.

Gauder, Heidi (1998), Library, Assistant Professor - B.A., University of
Dayton, 1990; M.A., Purdue University, 1992; M.L.S., Indiana University,
1995.

Geary, K. Michael (1976), Accounting, Associate Professor - B.S.,
Indiana University, 1969; M.B.A., Miami University, 1974; Ph.D., University of

Geiger, Donald R., S.M. (1964), Biology, Professor - B.S., University of
Dayton, 1955; M.S., The Ohio State University, 1960; Ph.D.,
1963.

G engineer, Harry S. (1979), Law, Professor - B.A., Queens College, 1970;

Ghera, Richard K. (1984), Political Science, Associate Professor - B.A.,
Concordia College, 1968; M.A., University of Toledo, 1970; Ph.D.,
Wayne State University, 1978.

Globig, James E. (1988), Engineering Technology, Associate Professor -

Goldmann, Daniel (1997), Geology, Assistant Professor - B.A., State
Goldmann, Eyal (2001), Physics, Lecturer - B.S., University of California, Los Angeles, 1992; M.S., University of California, San Diego, 1994; Ph.D., 1999.


Greenlee, Janet S. (1999), Accounting, Associate Professor - B.S., The Ohio State University, 1967; M.S.W., West Virginia University, 1973; M.B.A., University of California, Los Angeles, 1978; Ph.D., University of Kentucky, 1993.

Griffin, James F. (1985), Chemical and Materials Engineering, Adjunct Professor - B.A., Oberlin College, 1961; M.S.Ch.E., Ohio University, 1967.

Griffin, Jeffrey L. (1990), Communication, Associate Professor - A.B., University of North Carolina, 1979; M.A., University of Texas, 1983; Ph.D., University of North Carolina, 1990.


Hallinan, Kevin P. (1988), Mechanical and Aerospace Engineering, Professor - B.S., University of Akron, 1982; M.S., Purdue University, 1984; Ph.D., Johns Hopkins University, 1989.


Heitmann, John A. (1984), History, Professor - B.S., Davidson College, 1970; M.A., Clemson University, 1974; Ph.D., Johns Hopkins University, 1983.


Herrelio, David A. (2000), School of Engineering, Bernard Schmidt Chair in Engineering Leadership - B.S.E.E., Massachusetts Institute of Technology, 1969; M.S., Syracuse University, 1970; M.B.A., University of Dayton, 1975; Ph.D., University of California, Los Angeles, 1976.


Hiller, James M. (2001), Music, Lecturer - B.M., Capital University, 1982; M.M.T., Temple University, 1994; MT-BC.


Hoffman, Lee E. (2001), Music, Visiting Assistant Professor - B.M., California State University at Sacramento, 1995; M.M., Webster University, 1990.

Hofmann, Marie-Claude (1995), Biology, Associate Professor - M.S., University of Lausanne, Switzerland, 1977; Ph.D., 1988.

Hovey, Peter W. (2001), Mathematics, Assistant Professor - B.S., University of Dayton, 1975; M.S., University of Kentucky, 1977; Ph.D., 1980.


Hunley, Sawyer (1999), Counselor Education and Human Services, Assistant Professor - B.S., Miami University, Ohio, 1976; M.S., 1986; Ed.S., 1990; Ph.D., University of Cincinnati, 1998.
Hunn, Diana M. (1992), Teacher Education, Associate Professor - B.S.,
Miami University, 1972; M.Ed., 1973; Ph.D., Indiana University, 1986.

Ilg, Timothy J. (1998), Educational Leadership, Assistant Professor - B.A.,
Malone College, 1968; M.A., The Ohio State University, 1972; Ph.D.,
1982.

Inglis, John A. (1993), Philosophy, Associate Professor - B.A.,
University of St. Thomas, 1977; M. Div., University of Toronto, 1982; M.A.,
University of Houston, 1989; Ph.D., University of Kentucky, 1993.

Ingram, Jefferson E. (1978), Political Science, Associate Professor -

Inscho, Frederick R. (1976), Political Science, Associate Professor - A.B.,
University of Detroit, 1968; M.A., State University of New York at
Buffalo, 1972; Ph.D., 1976.

Islam, Muhammad (1985), Mathematics, Professor - B.S., University of
Dhaka, Bangladesh, 1972; M.S., Carleton University, Ottawa, 1980;

Israel, Susan E. (2003), Teacher Education, Assistant Professor - B.S., St.
Joseph's College, 1985; M.S., Indiana University, 1998, Ph.D., Ball
State University, 2002.

Jain, Vinod K. (1979), Mechanical and Aerospace Engineering, Professor -
B.S.M.E., University of Roorkee, India, 1964; M.S.M.E., 1970; Ph.D.,
Iowa State University of Science and Technology, 1980.

Janney, Jay J. (2001), Management and Marketing, Assistant Professor -
B.A., Ball State University, 1984; M.B.A., 1986; Ph.D., University of
Kentucky, 1999.

Janson, Jolly J. (1998), Educational and Special Programs, Administrative -
B.A., Wake Forest University, 1988; M.Ed., Kent State University,
1994.

Jenkins, Fred W. (1987), Library, Professor - B.A., University of Cincinnati,

Jipson, Arthur J. (2001), Sociology, Anthropology, and Social Work,
Associate Professor - B.A., University of Minnesota, 1988; M.A., Bowling
Green State University, 1991; Ph.D., 1995.

John, Barbara H. (2002), Economics and Finance, Lecturer - B.A.,

John, Reiji (1993), Materials Engineering, Adjunct Assistant Professor -
B.T., Indian Institute of Technology, 1982; Ph.D., Northwestern
University, 1987.

Johnson, David W. (1984), Chemistry, Associate Professor - B.S., Illinois
Institute of Technology, 1979; Ph.D., 1983.

Johnson, Kelly S. (2002), Religious Studies, Assistant Professor - B.A.,
University of Notre Dame, 1986; M.A., 1987; Ph.D., Duke University,

Johnson, Patricia A. (1979), Philosophy, Professor - B.A., Eckerd College,
1967; M.A., Columbia University, 1969; M.A., University of Toronto,
1974; Ph.D., 1979.

Johnson, Sam (1985), College of Arts and Sciences, Assistant Dean,
Administrative - B.A., Millikin University, 1966; M.Div., Union
Theological Seminary, 1969.

Jones, Jeffrey C. (2002), Visual Arts, Assistant Professor - B.F.A.,
University of Tennessee at Chattanooga, 1998; M.F.A., University of

Jones, Robert B. (1992), Music, Assistant Professor - B.M.E., Appalachian
State University, 1972; M.M., University of North Carolina, 1975; D.M.A.,
University of Miami, 1991.

Juniewicz, Debra (1997), Communication, Lecturer - B.A., University of

Kallenberg, Brad J. (2001), Religious Studies, Assistant Professor - B.S.
Ed., University of Minnesota, 1981; M.A., Fuller Theological Seminary,

Kanet, John J. (2002), Management Information Systems, Operations
Management, and Decision Sciences, Professor and Niehaus Chair in
Operations Management - B.S., Lehigh University, 1967; M.B.A., Loyola
College, 1971; Ph.D., Penn State University, 1979.

Karns, Margaret P. (1976), Political Science, Professor - B.A., Denison
University, 1965; M.A., University of Michigan, 1966; Ph.D., 1975.
Karpur, Prasanna (1989), Materials Engineering, Associate Professor - B.S., University of Mysore, 1974; B.S., 1980; M.S., University of California, 1983; Ph.D., Drexel University, 1987.

Kashani, A. Reza (1994), Mechanical and Aerospace Engineering, Professor, B.S.M.E., Sharif University, 1977; M.S.M.E., University of Wisconsin, 1979; M.S., 1986; Ph.D., University of Wisconsin, 1989.

Katsuyama, Ronald M. (1973), Psychology, Associate Professor - B.S., University of California, 1966; Ph.D., Vanderbilt University, 1977.

Kauflin, John E. (1966), Mathematics, Assistant Professor - B.S., University of Dayton, 1962; M.S., Michigan State University, 1964; Ph.D., Georgetown University, 1970.

Kearns, Robert J. (1984), Biology, Professor - B.S., Washington State University, 1968; M.S., 1975; Ph.D., 1978; M.T. (ASCP), 1971.


Kissock, John K. (1995), Mechanical and Aerospace Engineering, Associate Professor - B.S., University of Colorado, 1982; M.S., Washington University, 1989; Ph.D., Texas A&M University, 1993.


Korte, John R. (1973), Psychology, Associate Professor - A.B., University of California, 1967; M.S., Purdue University, 1970; Ph.D., 1973.


Kozlak, Andrea M. (1993), Geology, Associate Professor - B.A., Boston University, 1983; Ph.D., University of Chicago, 1988.


Krane, Carissa M. (2001), Biology, Assistant Professor - B.S., Marquette University, 1990; Ph.D., Washington University, 1996.


Krugh, Janis L. (1987), Languages, Associate Professor - B.A., Ohio Northern University, 1974; M.A., University of Toledo, 1979; Ph.D., University of Pittsburgh, 1986.


Kumar, Binod (1980), Electro-Optics, Associate Professor - B.S., Banaras Hindu University, 1967; M.S., Pennsylvania State University, 1973; Ph.D., 1976.

Lain, Laurence B. (1976), Communication, Professor - B.S., Indiana State University, 1969; M.A.E., Ball State University, 1973; Ph.D., The Ohio State University, 1984.


Larson, Robert K. (2001), Accounting, Associate Professor - B.S., George Fox College, 1980; M.B.A., Portland State University, 1987; Ph.D., University of Utah, 1993.


Lau, Terence J. (2002), Management and Marketing, Assistant Professor - B.A., Wright State University, 1995; J.D., Syracuse University, 1998.

Laubach, Lloyd L. (1960), Health and Sport Science, Associate Professor - B.S., Central State University, Oklahoma, 1961; M.S., University of Oregon, 1962; Ph.D., The Ohio State University, 1970.


Lee, C. William (1982), Chemical and Materials Engineering, Professor - B.S., National Taiwan University, 1978; M.S., University of Akron, 1979; Ph.D., The Ohio State University, 1982.


Liu, Ruihua (2004), Mathematics, Assistant Professor - B.E., Nankai University, 1985; M.E., 1988; Ph.D. (Engineering), 1994; M.S., University of Georgia, 2001; Ph.D. (Mathematics), 2002.

Liu, Shiqiang (1990), Materials Engineering, Professor - B.S., Beijing University of Science and Technology, 1967; M.S., 1980; Ph.D., University of Dayton, 1989.


Martorano, Nancy A. (2002), Political Science, Assistant Professor - B.A., Clemson University, 1995; M.A., Rice University, 2000; Ph.D., 2002.


Matherne, Brett P. (2002), Management and Marketing, Assistant Professor - B.S., Louisiana State University, 1987; M.B.A.; 1991; Ph.D., Georgia State University, 2002.
Mattie, David (1987), Biology, Adjunct Associate Professor - B.S., University of Dayton, 1975; M.S., 1977; Ph.D., 1983.
Moon, Donald L. (1974), Electrical and Computer Engineering and Electro-Optics, Professor - B.S.E.E., West Virginia Institute of Technology, 1963; M.S.E.E., University of Toledo, 1966; Ph.D., The Ohio State University, 1974.
Morris III, Willie L. (1993), Music, Associate Professor - B.M.E., East Carolina University, 1982; M.A., Stephen F. Austin State University,
1984; D.M.A., University of Missouri at Kansas City Conservatory of Music, 1996.

Morrison, Julie Q. (2003), Counselor Education and Human Services, Assistant Professor - B.S., St. Louis University, 1992; M.A., Xavier University, 1994; M. Ed., University of Cincinnati, 1997; Ph.D., 2001.


Mosser, Kurt (1992), Philosophy, Associate Professor - B.A., Southern Methodist University, 1979; M.A., University of Chicago, 1982; Ph.D., 1990.

Moulin, Eugene K. (1965), Counselor Education and Human Services, Professor - B.A., Mount Union College, 1956; M.E., Kent State University, 1959; Ph.D., University of Toledo, 1968.


Murray, Andrew P. (1996), Mechanical and Aerospace Engineering, Associate Professor - B.S., Rose-Hulman Institute of Technology, 1989; M.S., University of California, Irvine, 1993; Ph.D., 1996.

Murray, Paul T. (1982), Materials Engineering, Professor - B.S., University of Cincinnati, 1974; Ph.D., University of North Carolina, 1979.


Nelson, Peter B. (1979), Political Science, Assistant Professor - B.S., Florida State University, 1969; B.S., Florida International University, 1973; M.S.M., 1975; Ph.D., University of Mississippi, 1982.

Nielson, Mark G. (2001), Biology, Assistant Professor - B.A., Oberlin College, 1988; Ph.D., Stanford University, 1994.


O'Gorman, John M. (1999), Library, Assistant Professor - B.A., Walsh University, 1981; M.L.S., St. John's University, 1983.

O'Hare, J. Michael (1966), Physics, Professor - B.S., Loras College, 1960; M.S., Purdue University, 1962; Ph.D., State University of New York at Buffalo, 1966.

O'Denski, Thomas, S.M. (1994), Educational Leadership, Adjunct Professor - B.A., University of Dayton, 1972; M.Ed., Boston College,
1975; M.A., Western Michigan University, 1978; Ed.S., University of Dayton, 1984; Ph.D., Miami University, 1994.

O'Meara, Maureen F. (1986), Languages, Associate Professor - B.A., Trinity College, 1971; Ph.D., Cornell University, 1976.

Ordóñez, Raúl, E. (2001), Electrical and Computer Engineering, Assistant Professor - B.S., Monterrey Institute of Technology, 1994; M.S., The Ohio State University, 1996; Ph.D., 1999.

Ostliek, Francis R., (1996), Mechanical and Aerospace Engineering, Adjunct Associate Professor - B.S., University of Nebraska, 1957; M.S., 1955; Ph.D., The Ohio State University, 1975.

Oumlil, A. Ben (1983), Management and Marketing, Associate Professor - B.S., Southwest Missouri State University, 1976; M.B.A., 1977; Ph.D., University of Arkansas, 1983.

Pair, Donald L. (1991), Geology, Professor - B.S., St. Lawrence University, 1983; M.Sc., University of Waterloo, 1986; Ph.D., Syracuse University, 1991.

Pan, Yue (2003), Management and Marketing, Assistant Professor - B.A., Tsinghua University, 1996; B.Eco., 1996; M. Eng., 1998; (cand.) Ph.D., University of Georgia, 2003.


Patterson, Mark A. (2002), Engineering Technology, Assistant Professor - B.S.E.T., Brigham Young University; M.S.E.T., 2002.

Payne, Michael A. (1977), Philosophy, Associate Professor - B.A., Xavier University, 1966; M.A., Boston College, 1970; Ph. D., University of Georgia, 1972.


Petrykowski, John C. (1983), Mechanical and Aerospace Engineering, Associate Professor - B.S., University of Wisconsin, 1975; M.S., University of Illinois, 1978; Ph.D., 1981.


Phelps, Kyle (2002), Visual Arts, Assistant Professor - B.S., Ball State University, 1996; M.F.A., University of Kentucky, 2000.


Pierce, Jason L. (2002), Political Science, Assistant Professor - B.A., Southwestern University, 1994; Ph.D., University of Texas at Austin, 2002.

Place, A. William (1994), Educational Leadership, Associate Professor - B.S., University of Dayton, 1976; M.S., 1980; Ph.D., The Ohio State University, 1988.

Poe, Danielle M. (2001), Philosophy, Assistant Professor - B.A., Seattle University, 1995; M.A., Catholic University, Belgium, 1997; Ph.D., Fordham University, 2001.


Polzella, Donald J. (1972), Psychology, Professor, Roesch Chair in the Social Sciences - B.A., University of Rochester, 1967; M.A., Bucknell University, 1969; Ph.D., University of Michigan, 1974.


Powers, Peter E. (1997), Physics, Associate Professor - B.S., Massachusetts Institute of Technology, 1988; M.S., Cornell University, 1990; Ph.D., 1994.


Raffoul, Youssef N. (1999), Mathematics, Assistant Professor - B.S., University of Dayton, 1987; M.S., 1989; M.A., Indiana University, Bloomington, 1991; Ph.D., Southern Illinois University at Carbondale, 1996.


Randolph, David W. (2003), Accounting, Assistant Professor - B.S., University of Kentucky, 1989; M.B., Indiana University, 1998; Ph.D., 2000.


Richards, William M. (1970), Philosophy, Associate Professor - B.A., Le Moyne College, 1966; Ph.D., Georgetown University, 1970.


Robinson, James D. (1982), Communication, Professor - B.A., University of the Pacific, 1978; M.A., West Virginia University, 1979; Ph.D., Purdue University, 1982.


Robinson, Jayne B. (1994), Biology, Associate Professor - B.S., Bowling Green State University, 1978; M.S., The Ohio State University, 1984; Ph.D., 1991.


Rosenberger, Andrew H. (1998), Materials Engineering, Adjunct Professor - B.S., Michigan Technological University, 1986; M.S., 1987; Ph.D., University of Rhode Island, 1993.


Rowe, John J. (1977), Biology, Professor - B.S., Colorado State University, 1968; M.S., Arizona State University, 1971; Ph.D., University of Kansas Medical Center, 1975.

Rowley, James B. (1989), Teacher Education, Professor - B.S., University of Dayton, 1969; M.S., Miami University, 1974; Ph.D., The Ohio State University, 1989.


Ruh, Robert (1998), Materials Engineering, Adjunct Professor - B.S., Rutgers University, 1952; M.S., 1953; Ph.D., 1960.


Sandy, Michael Reginald (1987), Geology, Professor - B.Sc., Queen Mary College, University of London, 1980; Ph.D., 1984.

Sammarina, Juan C. (1997), History, Assistant Professor - B.A., University of Wisconsin-Madison, 1989; Ph.D., Rutgers University, 1995.


Sargent, Gordon A. (1985), Mechanical and Aerospace Engineering, Professor - B.Sc., Imperial College of Science and Technology, University of London, 1960; Ph.D., 1964.

Satish, Samachary (1999), Materials Engineering, Adjunct Associate Professor - B.Sc., University of Mysore, 1974; M.Sc., 1976; Ph.D., 1986.


Scantlin, Ronda J. (2002), Communication, Assistant Professor - B.A., Bethany College, 1992; M.A., University of Kansas, 1995; Ph.D., University of Texas at Austin, 1999.


Schaller, Molly A. (1989), Counselor Education and Human Services, Assistant Professor - B.A., The Ohio State University, 1987; M.S., Miami University, 1989; Ph.D., Ohio University, 2000.

Schauer, John J. (1968), Mechanical and Aerospace Engineering, Professor - B.M.E., University of Dayton, 1958; M.S., Carnegie Institute of Technology, 1959; Ph.D., Stanford University, 1964.


Seitzer, Jennifer (1998), Computer Science, Assistant Professor - B.M., West Chester State College, 1982; B.S., Arizona State University, 1985; M.S., University of Cincinnati, 1993; Ph.D., 1997.


Shaughnessy, Gerald J. (1967), Mathematics, Associate Professor - B.S., University of Dayton, 1963; M.S., Florida State University, 1964.


Sheng, Qin (2001), Mathematics, Associate Professor - B.S., Nanjin University, 1982; M.S., 1984; Ph.D., University of Cambridge, 1990.


Sidhu, Sukhjinder S. (1992), Mechanical and Aerospace Engineering, Assistant Professor - B.S., Osmania University, 1987; M.S., University of Illinois, 1991; Ph.D., 1992.


Siporin, Clifford (1989), Biology, Adjunct Associate Professor - B.S., State University of New York at New Raltz, 1971; M.S., University of Dayton, 1973; Ph.D., 1975.
Slade, R. Andrew (2003), Philosophy, Visiting Assistant Professor - B.A., Seattle University, 1995; B.A., Katholieke Universiteit Leuven, 1996; Ph.D., State University of New York at Stony Brook, 2004.
Smith, Todd B. (2001), Physics, Assistant Professor - B.S., University of Notre Dame, 1989; M.A., Miami University, 1990; M.S., University of Michigan, 1995; Ph.D., 1998.
Sparks, John R. (1995), Management and Marketing, Associate Professor - B.B.A., West Texas State University, 1988; Ph.D., Texas Tech University, 1995.
Sritharan, R. (1999), Computer Science, Associate Professor - B.Tech., Indian University of Technology, 1985; M.S., Vanderbilt University, 1988; Ph.D., 1995.
Subramanyam, Guru (1998), Electrical and Computer Engineering, Associate Professor - B.E., University of Madras; 1984; M.S., University of Cincinnati, 1998; Ph.D., 1993.
Summers, Donna C. S. (1984), Engineering Technology, Professor - B.S.M.E., University of Cincinnati, 1982; M.S.I.E., Purdue University, 1984; Ph.D., University of Cincinnati, 1991.
Swavey, Shawn M. (2002), Chemistry, Assistant Professor - B.S., Edinboro University, 1991; M.S., Case Western Reserve University, 1995; Ph.D., 1998.


Talbott, Lou E. (1988), Director, Student Activities, Administrative - B.S., Wright State University, 1975; M.S., 1984.


Taylor, Annette M. (1988), Communication, Assistant Professor - B.A., Michigan State University, 1974; M.A., 1988; Ph.D., Bowling Green State University, 1996.

Taylor, David L. (1971), Biology, Clinical Associate Professor - B.A., Wittenberg University, 1963; M.S., West Virginia University, 1965; Ph.D., 1968.


Thompson, Teresa L. (1985), Communication, Professor - B.A., University of Wisconsin, 1975; M.A., Purdue University, 1976; Ph.D., Temple University, 1980.


Tibbetts, Paul E., Jr. (1969), Philosophy, Professor - B.A., Clark University, 1964; M.A., Boston University, 1965; Ph.D., Purdue University, 1973; Ph.D., University of Illinois, 1985.


Tillman, Beverly A. (1990), Teacher Education, Associate Professor - B.S., Miami University, 1974; M.A., University of Michigan, 1975; Ph.D., The Ohio State University, 1992.

Titlebaum, Peter J., (1996), Health and Sport Science, Associate Professor - B.S., State University of New York at Brockport, 1982; M.S., The Ohio State University, 1985; Ph.D., Temple University, 1993.


Tran, Duc (2003), Computer Science, Assistant Professor - B.Sc., Vietnam National University, 1996; Ph.D., University of Central Florida, 2003.
Tsonis, Panagiotis A. (1989), Biology, Professor, Mann Chair in the Sciences - B.S., Patras University, 1977; M.S., Nagoya University, 1980; Ph.D., 1983.
Vanderburgh, Paul (2004), Health and Sport Science, Associate Professor and Chairperson - B.S., United States Military Academy, West Point, 1982; M.A., University of Georgia, 1988; Ed.M., Columbia University, 1991; Ed.D., 1992.
Vorvoreanu, Mihaela (2004), Communication, Assistant Professor - B.A., Bucharest University, 1997; M.A., Purdue University, 1999; Ph.D., Purdue University, 2004.
Walsh, Richard J. (1999), School of Business Administration, Administrative - B.S., Northeastern University, 1984.


Wendeln, Donald E. (1965), Engineering Technology, Adjunct Professor - B.M.E., University of Dayton, 1950.


Wright, Shirley Jane (1993), Biology, Associate Professor - B.S., Loyola University, Chicago, 1981; M.S., 1983; Ph.D., University of Iowa, 1981.

Youum Mize, Sandra (1992), Religious Studies, Associate Professor - B.A., University of Oklahoma, 1976; Ph.D., Marquette University, 1987.

Yoder, Donald D. (1989), Communication, Associate Professor - B.S., Iowa State University, 1973; M.A., University of Nebraska-Lincoln, 1975; Ph.D., The Ohio State University, 1982.


Wright, David J. (1996), Biology, Associate Professor - B.Sc., University of Sheffield, England; Ph.D., University of Iowa, 1989.

Wright, Shirley Jane (1993), Biology, Associate Professor - B.S., Loyola University, Chicago, 1981; M.S., 1983; Ph.D., University of Iowa, 1981.


Zabarnick, Steven S. (1988), Mechanical and Aerospace Engineering, Associate Professor - B.S., State University of New York at Binghamton, 1980; Ph.D., Pennsylvania State University, 1984.


Zhan, Qiwen (2002), Electro-Optics, Assistant Professor - B.S., University of Science and Technology of China, 1996; M.S.E.E., University of Minnesota, 2000; Ph.D., 2002.


Research Institute Staff

Abfalter, Garry H. (1988), Senior Research Engineer-BME, University of Detroit, 1968; M.S., Oklahoma State University, 1972.


Ashbaugh, Noel E. (1982), Group Leader-Distinguished Research Engineer-B.S., Purdue University, 1962; M.S., 1963; Ph.D., University of California, 1971.


Bai, Zongwu (2003), Associate Research Scientist-B.S., Hebei University of Technology, 1983; M.S., 1988; Ph.D., Beijing University, 1995.


Bohun, Michael H. (1999), Research Engineer-B.S., Purdue University, 1977; M.S., Air Force Institute of Technology, 1981.


Brar, Nachhatter S. (1986), Senior Research Physicist-B.Sc., Panjab University, 1962; M.Sc., Punjabi University, 1966; M.S., Trent University, 1972; Ph.D., University of Western Ontario, 1979.


Buryachenko, Valeri A. (2000), Senior Research Engineer-D.Sc., Academy Science of Ukraine, 1976; M.S., Moscow State University, 1976; Ph.D., Research Institute of Chemical Engineering (Moscow), 1982.

Byrd, R. Alan (2004), Senior Research Engineer-B.S., Georgia Institute of Technology, 1982; M.S., 1983.


Casavant, Michael J. (2004), Associate Research Scientist-B.S., University of Texas-Dallas; 1996; M.S., Rice University, 2002; Ph.D., 2002.


Chen, Chenggang (2000), Senior Research Scientist-B.S., Hangzhou University, 1987; M.S., Zhejiang University, 1989; Ph.D., Case Western Reserve University, 1999.

Chen, Christina (2003), Senior Research Engineer-B.S., Guangxi University, 1978; M.S., Institute of Metal Research, 1983; Ph.D., University of Dayton, 1993.


Coleman, James T., (1990), Associate Research Engineer-B.S., University of Dayton, 2003.


Culhane, William J. (2003), Senior Research Coatings Scientist-B.S., California State University, 1976; M.S., North Dakota State University; M.S., Northwestern University, 1985.

Daniels, Jack W. (1996), Senior Business Manager-B.S., Penn State University, 1961; M.B.A., University of Southern California, 1969; Ph.D., California Coast University, 1999.


DeWitt, Matthew J. (2001), Group Leader-Senior Research Engineer-B.S., Ohio State University, 1994; Ph.D., Northwestern University, 1999.


Elgafy, Ahmed A. (2003), Associate Research Engineer-B.S., Mansoura University, 1984; M.S., Zagazig University, 1990; Ph.D., 1996.


Fox, Jeffrey A. (1974), Group Leader-Distinguished Research Engineer-B.S., Wright State University, 1979; M.S., 1989.


Fry, Timothy J. (2004), Senior Research Engineer-B.S., University of Illinois Urbana, 1986; M.S., 1986; Ph.D., University of Dayton, 1996.


Gibson, Thao T. (1999), Associate Research Engineer-B.S., Virginia Polytechnic Institute and State University, 1997.


Haines, Amber I. (2002), Associate Research Chemist-B.S., Wright State University, 2002.


Harris, Bryan W. (2004), Associate Research Engineer-B.S., Ohio State University, 2002.

Harris, Richard J. (1995), Research Engineer-B.S. Miami University, 1967; M.S., Yale University, 1968.
Harrison, Richard P. (2003), Associate Research Engineer-B.S., Utah State University, 2001; M.S., 2002.
Hoeffel, James D. (2003), Part-Time Senior Research Engineer-B.S., University of Dayton, 1959; M.S., Ohio State University, 1965.
Holthaus, Dennis F. (1979), Associate Safety Coordinator/Facilities Coordinator.
Johnson, Jay M (2000), Senior Research Chemist-B.S., Miami Tri-State University, 1971; M.S., Wright State University, 1976; Ph.D., University of Cincinnati, 1981.


Kramer, Daniel P. (2004), Group Leader-Senior Research Scientist-B.S., Rutgers University, 1974; M.S., MIT, 1976; M.S., Rutgers University, 1979; Ph.D., 1979.


Kumar, Binod (1980), Group Leader-Distinguished Research Engineer-B.S., Banaras Hindu University, 1962; B.S., Banaras Hindu University, 1967; M.S., Pennsylvania State University, 1973; Ph.D., 1976.


McCabe, Michael V. (1993), Associate V.P. for Research and Director-B.S., Capital University, 1971; M.S., University of Cincinnati, 1973; Ph.D., 1976; M.B.A., 1980.


Medlar Peggy G. (1986), Senior Research Engineer-B.S., University of Notre Dame, 1981.


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Murray, Paul T. (1982), Senior Research Chemist-B.S., University of Cincinnati, 1974; Ph.D., University of North Carolina, 1979.


Powar, Nilesh U. (2003), Associate Research Software Engineer-B.S., Bombay University, 1999; M.S., Wright State University, 2002.


Quill, Shad K. (2003), Associate Research Engineer-B.S., University of Idaho, 2001; M.S., University of Arizona, 2003.


Rice, Brian Patrick (1986), Group Leader-Research Engineer-B.S., Ohio State University, 1986; M.S. University of Dayton, 1990.

Ripberger, Erik R. (2003), Associate Research Engineer-B.S., Wright State University, 2002.


Roberts, Marcie B. (2002), Associate Research Chemist-B.S., Wright State University, 2002.


Saba, Costandy S. (1976), Group Leader-Distinguished Research Chemist-B.A., Messiah College, 1968; M.S., Ohio State University, 1971; Ph.D., 1974.

Sathish, Shamachary (1996), Senior Research Engineer-B.S., Yuvaraja College, 1974; M.S., University of Mysore, 1976; Ph.D., 1984.


Sidhu, Sukhjinder S. (1992), Senior Research Engineer-B.S., Osmania University, 1987; M.S., University of Illinois, 1991; Ph.D., 1992.


Skinn, Donald A. (1979), Senior Research Programmer-B.A., Ohio State University, 1975.


Smith, Rachel R. (2003), Associate Research Scientist-B.S., Wright State University, 2001; M.S., 2003.


Stevens, Larry B. (2003), Senior Research Engineer-B.S., Auburn University, 1968.


Stubbs, David A. (1990), Group Leader-Senior Research Engineer-B.S., Miami University, 1980; M.S., 1981.


Sturgill, Jeffrey A. (1993), Research Engineer-B.S., University of Toledo, 1986; B.S., Wright State University, 1993.

Swierenga, Sarah J. (2002), Senior Human Factors Psychologist-B.S., Colvin College, 1982; M.S., University of South Dakota, 1984; Ph.D., 1988.


Thomas, Ronald L. (1999), Internet/Programmer Analyst.


Toth, Douglas K. (1990), Research Lubricants Engineer-B.S., Southern Methodist University, 1987; M.S., Case Western Reserve University, 1989.

Vaidya, Shailesh Y. (2003), Research Software Database Engineer-B.S., University of Pune India, 1993; M.S., University of New Mexico, 1996.


Vukelich, Sharon I. (2003), Senior Research Engineer-B.S., Michigan State University, 1974; M.S., University of Cincinnati, 1980.

Walters, Larrell B. (2003), Director of Technology Partnerships-B.S., Bowling Green State University, 1978; M.S., Kent State University, 1985.

Wang, Chyi-Shan (1985), Group Leader-Distinguished Research Engineer-B.S., Tatung Institute of Technology, 1975; M.S., National Tsing Hua University, 1977; Ph.D., University of Cincinnati, 1983.

Wang, Huabin (2003), Associate Research Scientist-B.S., Nankai University, 1990; M.S., Changchun Institute, 1993; Ph.D., University of Akron, 1999.


Williams, Theodore F. (1990), Group Leader-Senior Research Engineer-B.S., University of Dayton, 1982.


Academic Information

In this section, you can locate specifics on various academic areas, and the programs and courses they offer.

Use the menu to the right to explore by department/program, major/minor, or courses. These search options produce three common elements: a description, a list of majors and minors, and a list of courses. Each of these elements can be collapsed or expanded. The main elements can be expanded and collapsed by using the link directly to the right of the element title. Individual majors and minors and individual courses can be expanded and collapsed by using the + / - box to the left of the individual item title.

You can print any page of content by clicking the icon that will be located at the top of the page, directly to the right of the page title. The displayed material will be reformatted into a print-friendly version.
School of Business Administration

(ACC) Accounting (Collapse Description)

The mission of the Department of Accounting is to prepare our students for successful professional careers by providing high quality educational programs in accounting within an environment that connects learning, scholarship, leadership, and service creating distinctive graduates able to add value to employers, clients, and society.

An accounting major must earn credit in at least seven upper-level accounting courses. Six specific courses are required: ACC 303, 305, 306, 341, 401, and 420. One additional accounting course is typically required. All upper-division accounting courses require a minimum grade of "C" in all prerequisite accounting courses. Students should consult with their academic advisor about selecting accounting and other elective courses appropriate to particular career goals. Students should also consult their advisor or the chairperson about opportunities for professional work experience, double majors and minors, foreign exchange opportunities, requirements for professional (e.g., CPA) examination, etc.

Students may complete a 150 semester hour program required to become a CPA in Ohio and numerous other states. The MBA program, with an optional concentration in accounting, is particularly useful in this regard. Our integrated B.S./M.B.A. program allows for the completion of both degrees, plus professional work experience, foreign exchange experience and a second major or minor, in five years. Consult the department chairperson or an advisor for more information.

Faculty

Ronnie J. Burrows, Chairperson
Professors Emeriti: Clark, Eley, Fioriti, Roehm, Rosenzweig
Mahrt Chair in Accounting, Donna Street
Professors: Castellano, Street
Associate Professors: Brady, Burrows, Geary, Greenlee, Larson
Lecturers: Giffin, Shankar, Shishoff

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science with a major in Accounting (ACC)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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<tr>
<td>BAI 103L</td>
<td>1</td>
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<tr>
<td>BAI 150</td>
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<tr>
<td>BAI 151</td>
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<tr>
<td>CMM 110</td>
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<td>ENG 101</td>
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<td>ENG 102</td>
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<tr>
<td>HST 103</td>
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<tr>
<td>MTH 128</td>
<td>3</td>
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<tr>
<td>MTH 129</td>
<td>3</td>
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<tr>
<td>PHL 103</td>
<td>3</td>
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<tr>
<td>REL 103</td>
<td>3</td>
</tr>
<tr>
<td>Physical and Life Science elective⁵</td>
<td>3</td>
</tr>
<tr>
<td>Social Science elective⁵</td>
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<tr>
<th>Sophomore-Year</th>
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<tbody>
<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
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<tr>
<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
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CMM 111 \^2 INFORMATIVE PUBLIC SPEAKING 1  
CMM 113 \^2 INTERVIEWING 1  
DSC 210 STATISTICS FOR BUSINESS I 3  
DSC 211 STATISTICS FOR BUSINESS II 3  
ECO 203 PRINCIPLES OF MICROECONOMICS 3  
ECO 204 PRINCIPLES OF MACROECONOMICS 3  
MGT 201 LEGAL ENVIRONMENT OF BUSINESS 3  

Additional Communication Requirement\(^7\) 3  
Physical and Life Science elective\(^6\) 3  
HST elective 3

Junior-Year  
First-Term  16  
ACC 303 MANAGERIAL ACCOUNTING 3  
ACC 305 INTERMEDIATE FINANCIAL ACCOUNTING 4  
MGT 301 ORGANIZATIONAL BEHAVIOR 3  
MIS 301 INFORMATION SYSTEMS IN ORGANIZATIONS 3  
MKT 301 PRINCIPLES OF MARKETING 3  

Second-Term  15  
ACC 306 INTERMEDIATE FINANCIAL ACCOUNTING II 3  
ACC 341 ACCOUNTING INFORMATION SYSTEMS I 3  
FIN 301 BUSINESS FINANCE 3  
OPS 301 SURVEY OF OPERATIONS MANAGEMENT 3  
--- PHL 313 BUSINESS ETHICS (PHL 313) 3  
or REL 398 CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 398)

Senior-Year  
First-Term  17  
ACC 401 AUDITING PRINCIPLES 4  
ACC 420 FEDERAL INCOME TAXATION 4  
MGT 490\(^6\) MANAGING THE ENTERPRISE 3  
Arts Study elective 3  
General elective\(^10,11\) 3  

Second-Term  12  
ACC elective\(^8,9,9\) 3  
ECO elective\(^6,10\) 3  
PHL or REL elective\(^11\) 3  
General elective\(^11\) 3

\(^1\)A proficiency test for BAI 103L is available for those with adequate background.  
\(^2\)CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.  
\(^3\)Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.  
\(^4\)MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.  
\(^5\)SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.  
\(^6\)SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.  
\(^7\)Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.  
\(^8\)May be waived, and replaced by general electives, for students electing to complete a combined B.S. with a major in accounting and an MBA. Consult an advisor or the chair of the department for details.  
\(^9\)Accounting majors completing a second major in the SBA can often substitute or waive one or more courses. Consult an advisor for further information.  
\(^10\)Select any 300 or 400 level economics course.

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A minimum of 54 sem. hrs. of all academic work must be at the 300-400 level. Students completing the combined BS/MBA program should likely schedule additional MBA courses. Consult with your accounting advisor.

Minor in Accounting (ACC)

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Sem. Hrs.</th>
</tr>
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<tr>
<td>ACC 207 INTRODUCTION TO FINANCIAL ACCOUNTING</td>
<td>3</td>
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<tr>
<td>ACC 208 INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 305 INTERMEDIATE FINANCIAL ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 306 INTERMEDIATE FINANCIAL ACCOUNTING II</td>
<td>3</td>
</tr>
<tr>
<td>ACC electives(^1)</td>
<td>6</td>
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</tbody>
</table>

\(^1\)In consultation with the chairperson.

**Courses** (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to financial accounting concepts, procedures, and terminology. The accounting framework for recording transactions and reporting to parties external to the organization. <strong>Prerequisite(s):</strong> ((BA 103L or equivalent); sophomore standing) or permission of department chairperson.</td>
<td></td>
</tr>
<tr>
<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management use of accounting data in planning and controlling organization activities; cost accounting and analysis of data for management decision making. <strong>Prerequisite(s):</strong> ACC 207.</td>
<td></td>
</tr>
<tr>
<td>ACC 301</td>
<td>INTRODUCTION TO ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to financial and managerial accounting concepts, terminology, purposes, and applications for the nonbusiness student. Not open to students in the School of Business Administration or to those with credit in ACC 207.</td>
<td></td>
</tr>
<tr>
<td>ACC 303</td>
<td>MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The production, dissemination, and interpretation of financial information for use within an organization. Information for planning, decision making, and control. Study of typical cost accounting systems in various organizations. <strong>Prerequisite(s):</strong> (ACC 208; junior standing) or permission of department chairperson.</td>
<td></td>
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<tr>
<td>ACC 305</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Part I (part II in ACC 306) of a comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements. <strong>Prerequisite(s):</strong> (ACC 207, 208; junior standing) or permission of department chairperson.</td>
<td></td>
</tr>
<tr>
<td>ACC 306</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements. <strong>Prerequisite(s):</strong> ACC 305.</td>
<td></td>
</tr>
<tr>
<td>ACC 341</td>
<td>ACCOUNTING INFORMATION SYSTEMS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of designs of accounting systems, including their impact on management decision making and control. Emphasis on (1) a systems approach to the flow of data, (2) system internal control, and (3) computer applications in accounting. <strong>Prerequisite(s):</strong> (ACC 207, 208; MIS 301) or permission of department chairperson. <strong>Corequisite(s):</strong> MIS 301 or permission of department chairperson.</td>
<td></td>
</tr>
<tr>
<td>ACC 401</td>
<td>AUDITING PRINCIPLES</td>
<td>4</td>
</tr>
</tbody>
</table>
Study of the concepts, standards, and procedures used to judge and report on the degree of correspondence between quantifiable information and established criteria; and the ethical environment in which these determinations are made; introduction to internal, operational, and governmental auditing.  
**Prerequisite(s):** ACC 306, 341.  
**Corequisite(s):** ACC 306, 341 with permission of department chairperson.

**ACC 402 ACCOUNTING FOR NOT-FOR-ProFIT ORGANIZATIONS**  
Study of the principles, techniques, and procedures related to financial reporting of governmental units and other not-for-profit entities.

**ACC 404 ADVANCED STRATEGIC COST MANAGEMENT**  
Study of processes focused on strategic cost management. Topics include balanced scorecards, activity-based costing and management, target costing and the use of statistical process control as related to organizational processes and performance measurement and control systems.  
**Prerequisite(s):** (ACC 303 and OPS 301) or permission of department chairperson.

**ACC 408 ADVANCED FINANCIAL ACCOUNTING**  
Study of the principles and procedures in accounting for specialized uses in business combinations, consolidations, government and other not-for-profit entities, multinational companies, and foreign currency transactions.  
**Prerequisite(s):** ACC 305.

**ACC 412 INTERNATIONAL ACCOUNTING**  
Introduction to issues of international business as they relate to accounting: accounting practices in selected countries, and activities of the International Accounting Standards committee.  
**Prerequisite(s):** ACC 305 or permission of department chairperson.

**ACC 420 FEDERAL INCOME TAXATION**  
Study of federal income tax laws and their application to individuals, partnerships, and corporations. The historical, social, economic, and political influence on taxation laws are emphasized. Consideration is given to legal, moral, business, and personal factors involved in taxation.  
**Prerequisite(s):** ACC 305 or (ACC 208 with permission of department chairperson).

**ACC 421 ADVANCED TAXATION**  
Study of taxation of corporations, partnerships, and estates and trusts. Emphasis on the impact of taxation on business entities.  
**Prerequisite(s):** ACC 420.

**ACC 430 LAW FOR THE ACCOUNTING PROFESSION**  
Study of major laws affecting the public and private practice of accounting; contracts, property, commercial code, bankruptcy, business organizations, legal responsibility, and government regulations. Credit does not apply to requirements for ACC major.  
**Prerequisite(s):** ACC 208; MGT 203; permission of department chairperson.

**ACC 441 ACCOUNTING INFORMATION SYSTEMS II**  
Examination of accounting systems with exposure to systems design and evaluation, complex spreadsheet applications, decision support systems, and data base management applications.  
**Prerequisite(s):** ACC 341 or permission of instructor.

**ACC 491 HONORS THESIS**  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of program director and chairperson.

**ACC 492 HONORS THESIS**  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of program director and chairperson.
ACC 497 PROFESSIONAL WORK EXPERIENCE
1-6
Supervised accounting work experience in association with a participating public accounting, industrial, commercial, educational, health-care, or governmental organization. May be used for general elective credit only. Option two grading only. Maximum of three credits toward graduation requirements. Permission of chairperson required.

ACC 499 INDEPENDENT STUDY IN ACCOUNTING
1-6
Directed readings, independent study, and research projects in selected fields of accounting. Periodic conferences with instructor.
Prerequisite(s): Senior status in accounting; permission of department chairperson and instructor.
College of Arts and Sciences (AMS) American Studies (Collapse Description)

In this interdisciplinary program, students take courses in their choice of eleven fields, thereby learning the skills of integrating, coordinating and making connections. The program, one of over three hundred nationwide, is most appropriate for those whose interests encompass several traditional majors.

American Studies Committee

Una M. Cadegan (History), Director, American Studies Program
Durham (English), Kimble (Psychology), Moore (Religious Studies),
Ruggiero (Economics), Street (Music)

Majors/Minors

Bachelor of Arts with a major in American Studies (AMS)

American Studies

AMS 300, 301, 400 9
First area courses 24
Select courses from group A or B or C 15
Select supporting courses in the elected disciplines 9
Second area courses 9
Select from one of the two remaining groups
Third area courses 6
Select from the remaining group

Groups

Group A
MUS 304, 305, 306, 307, 327, 328, 404
VAH 370, 480, 482, 483, 490

Group B
PHL 307, 310, 311, 314, 317, 318, 320, 323, 331, 332, 340, 361
REL 326, 327, 328, 364, 367, 372, 373, 375, 376, 485

Group C
ANT 315, 335, 449
ECO 310, 346, 347, 390, 441, 442, 445, 450, 460, 461, 471, 485
POL 301, 303, 310, 311, 313, 314, 335, 350, 360, 408, 411, 413, 450, 475
PSY 334, 341, 361, 363, 443, 461, 462, 471
SOC 321, 328, 337, 339, 341, 343, 351, 352, 435

Liberal Studies Curriculum

Humanities and Fine Arts
Philosophy and Religious Studies 12
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities (may include courses from group A & B) 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1 This course can be counted only when the material is appropriate to American Studies. Consult program director.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 300</td>
<td>AMERICAN CULTURES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of American artifacts to discern how they indicate the periods in the life of the civilization and how like artifacts can be used to determine the stages of development of various peoples. (Will not satisfy humanities breadth requirement.)</td>
<td></td>
</tr>
<tr>
<td>AMS 301</td>
<td>INTERPRETATIONS OF AMERICAN CULTURE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Critical study of various interpretations of American culture through more than a hundred years</td>
<td></td>
</tr>
<tr>
<td>AMS 400</td>
<td>INTERDISCIPLINARY RESEARCH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the principles of interdisciplinary scholarship; what can and probably cannot be accomplished by it; successful interdisciplinary accomplishments. Students will complete interdisciplinary projects</td>
<td></td>
</tr>
<tr>
<td>AMS 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. <strong>Prerequisite(s):</strong> Approval of the University Honors Program</td>
<td></td>
</tr>
<tr>
<td>AMS 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. <strong>Prerequisite(s):</strong> Approved 477 and approval of University Honors Program</td>
<td></td>
</tr>
</tbody>
</table>
The Bachelor of Science program in biology is designed to prepare a student for a career in the life sciences. Graduates of the program are competitive for entry into graduate programs in biology as well as professional schools, such as medical, dental, osteopathic, and veterinary science.

The department has two primary areas of focus: environmental/ecological science and basic biomedical science. The former includes ecology, population biology, ecological physiology, animal behavior, environmental microbiology, community and restoration ecology, entomology and analysis of biological data, evolutionary biology, and plant physiology, as well as environmental biology in the narrow sense. The biomedical science course offerings include molecular biology, cell biology, general and medical microbiology, immunology, genetics, mammalian physiology, and developmental biology. In addition, advanced undergraduates may enroll in graduate courses for undergraduate credit with the consent of the chairperson.

In line with the two areas of research interests, the department encourages students (in consultation with their advisors) to declare one of the two as an area of concentration of study no later than the end of their sophomore year. For the student more interested in a broad approach to biology, the department recommends a third option, the general biology option (any combination of upper-level biology courses that fulfills the program requirements).

A minor in biology consists of twenty semester hours.

Faculty

John J. Rowe, Chairperson
Distinguished Service Professor: Noland
Professors Emeriti: Lauwersweiler, Ramsey
Professors: Burky, Geiger, Kears, Rowe, Tsonis, Williams
Associate Professors: Brittwisch, Friese, Hofmann, Robinson, D. Wright, S. Wright
Assistant Professors: Gadagkar, Krane, Nielsen
Adjunct Faculty: Benbow, Del Rio-Tsonis
Lecturers: Beal, Dillon, Kavanagh, Klco

Majors/Minors

Bachelor of Science with a major in Biology (BIO)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology(^1)</td>
<td>47</td>
</tr>
<tr>
<td>BIO 151, 151L, 152, 152L, 299, 310, 312, 420</td>
<td>16</td>
</tr>
<tr>
<td>Environmental/Ecological (select two)(^2)</td>
<td>7</td>
</tr>
<tr>
<td>Basic Biomedical (select two)(^4)</td>
<td>7</td>
</tr>
<tr>
<td>BIO 309-309L, 312L(^5), 403-403L, 404, 411-411L, 415, 425-425L, 427, 439(^6), 440-440L, 442-442L, 462, 466-466L, 480-480L</td>
<td></td>
</tr>
<tr>
<td>Electives: Four courses, two with accompanying laboratories, from the above groups.(^5)</td>
<td>14</td>
</tr>
</tbody>
</table>

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Breadth Requirement

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123-123L, 124-124L, 313-313L, 314-314L</td>
<td></td>
</tr>
<tr>
<td>PHY 201-201L, 202-202L</td>
<td></td>
</tr>
<tr>
<td>Mathematics, Computer Science</td>
<td>6</td>
</tr>
<tr>
<td>MTH 148-149</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities(^6)</td>
<td>9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
</tbody>
</table>

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

\(^1\)The Department of Biology supports national standards established by the National Institutes of Health for the responsible, humane treatment and housing of animals. The biology curriculum contains some laboratory courses in which dissection and vivisection are necessary and required in order to convey an understanding of certain biological concepts. All students are expected to participate in such laboratory exercises in the introductory biology sequence, BIO 151L and BIO 152L which involve dissection and/or vivisection. In other elective formal laboratory courses in which dissection and vivisection occur, it is expected that students will participate in all aspects of the laboratory. No alternatives to dissection or vivisection will be offered in these courses. It is ultimately the responsibility of students to make certain that they enroll in courses in which they are able to participate in all required exercises, and to obtain information from each instructor as to the specific laboratory course content and requirements. The Biology Department maintains an updated list of laboratory courses in which dissection and/or vivisection is required in order to assist students in the selection of course work.

\(^2\)One with accompanying laboratory. BIO 310 strongly recommended as one of two courses.

\(^3\)Qualifies as a laboratory elective for any category.

\(^4\)One with accompanying laboratory. BIO 462 strongly recommended as one of two courses.

\(^5\)One of the following Non-BIO science courses may include CHM 201/201L; CHM 420; MTH 367; CPS 111; CPS 132; GEO 208; GEO 308. Other Non-BIO science courses may be included with the approval of the chairperson.

\(^6\)HST 340, 341 or 342 are highly recommended.

Bachelor of Science with a major in Environmental Biology (EVB)

Environmental biology is a science specialization based upon the fundamentals of biology and ecology, applying interdisciplinary skills, knowledge and principles to the environmental problems facing society today. Students entering this dynamic field could become directly involved in addressing some of the significant global problems related to human impact on the environment. In addition to the standard base of courses required of most biology majors, the curriculum also requires a challenging core of environmentally related science courses and course work drawn from a multidisciplinary elective pool that includes offerings in the humanities and social sciences.

Internship Program: Majors will participate in the EVB internship program (BIO 499, see course prerequisites), where they will have the unique opportunity to obtain valuable training and experience under the mentorship of established scientists and other environmental professionals.

<table>
<thead>
<tr>
<th>Environmental Biology</th>
<th>62</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151-151L, 152-152L, 299, 310-310L, 312, 420, 439, 459, 479L, 499</td>
<td>28</td>
</tr>
<tr>
<td>Field Oriented Courses (select three)(^1)</td>
<td>11</td>
</tr>
<tr>
<td>Laboratory Oriented Courses (select two)(^3)</td>
<td>7</td>
</tr>
<tr>
<td>Science Electives (at least five of the following)</td>
<td>16</td>
</tr>
</tbody>
</table>

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7/10/2012
Breadth Requirement

Natural Sciences 26
- CHM 123-123L, 124-124L, 313-313L, 314
- GEO 115-115L, 116-116L
- PHY 201

Mathematics, Computer Science 6
- MTH 148-149

Social and Behavioral Sciences 6
- (ANT 150 or PSY 101)
- And elective
- Humanities 9
- Philosophy and Religious Studies 12

Communication Competencies5 0-9
- Elective 3
- Other non-science elective 0-3

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124-137

1 At least two courses with accompanying laboratory. One non-BIO science course approved for science majors may be included in this section with permission. BIO 499 requires the permission of the EVB Program Director.

2 Qualifies only as a laboratory elective; satisfies either BIO laboratory elective area.

3 At least one course with accompanying laboratory. One non-BIO science course approved for science majors may be included in this section with permission. BIO 499 requires the permission of the EVB Program Director.

4 Strongly recommended for students planning on going into graduate or professional school.

5 If composition requirement is waived, student should select another elective from the Liberal Studies Curriculum. ENG 378 strongly recommended for students whose background is weak in this area.

Minor in Biology (BIO)

Biology 20
- BIO 151-151L, 152-152L, 310, 312 14
- Select six additional semester hours (300- or 400-level) 6

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>GENERAL BIOLOGY I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A study of the more important biological processes and principles through analysis and synthesis, dealing primarily with the organizational aspects of living things. For the non-science major.</td>
<td></td>
</tr>
<tr>
<td>BIO 101L</td>
<td>GENERAL BIOLOGY LABORATORY I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Course to accompany BIO 101. One 2-hour laboratory each week stressing the investigational and experimental approach</td>
<td></td>
</tr>
<tr>
<td>BIO 102</td>
<td>GENERAL BIOLOGY II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A continuation of BIO 101, stressing primarily the operational aspects of living matter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): BIO 101</td>
<td></td>
</tr>
</tbody>
</table>

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BIO 102L  GENERAL BIOLOGY LABORATORY II  
Course to accompany BIO 102. One 2-hour laboratory each week

BIO 104  INTRODUCTORY BIOLOGY FIELD COURSE  
An introduction to the ecology, behavior, morphology, taxonomy, and life history of plants and animals. One week on campus; three weeks in the Rocky Mountains near Denver, Colorado; one week of travel to and from the field site. For non-biological science majors only. Third Term Only  
Corequisite(s): GEO 104; (BIO 104L or GEO 104L).

BIO 104L  INTRODUCTORY BIOLOGY FIELD LABORATORY  
Field trip laboratory in the biological sciences to accompany BIO 104. GEO 104L can be substituted for this course. Third term only

BIO 151  CONCEPTS OF BIOLOGY I  
Study of the molecular and cellular organization of organisms. Topics also include bioenergetics, genetics, and evolution. Core biology course for majors in sciences such as biology, premedicine, and others

BIO 151L  CONCEPTS OF BIOLOGY LABORATORY I  
An introduction to biological laboratory procedures and instrumentation through a series of observational and experimental exercises at the cellular level. Core biology course.  
Prerequisite(s): BIO 151.  
Corequisite(s): BIO 151.

BIO 152  CONCEPTS OF BIOLOGY II  
Continuation of BIO 151. Study of taxonomic diversity, plant and animal organismal physiology, and ecology and animal behavior. Core biology course.  
Prerequisite(s): BIO 151.

BIO 152L  BIOLOGY LABORATORY INVESTIGATIONS II  
Biological laboratory exercises at the organism and the system level. Emphasis on both plant and animal behavior. Core biology course.  
Prerequisite(s): BIO 152.  
Corequisite(s): BIO 152.

BIO 299  BIOLOGY SEMINAR  
Introduction to biological journals and abstracting materials. Practice in reviewing, abstracting, and presenting biological information. Primarily for sophomores

BIO 301  EVOLUTION  
Theory and evidence of organic evolution, with emphasis on microevolutionary change and population genetics  
Prerequisite(s): (BIO 101-102 or BIO 151-152); BIO 312 recommended.

BIO 309  COMPARATIVE ANATOMY OF THE VERTEBRATES  
Study of changes that have occurred in the chordate body with the passage of time, and analysis of their significance  
Prerequisite(s): Minimum of one year of introductory biology.

BIO 309L  COMPARATIVE ANATOMY LABORATORY  
Dissection and study of the anatomical structure of representative vertebrate animals. Course to accompany BIO 309.  
Corequisite(s): BIO 309.

BIO 310  ECOLOGY  
Interrelationship of plants, animals, and micro-organisms with the physical-chemical environment: nutrient cycles, energy flow, ecosystems, and factors affecting distribution and abundance of organisms.  
Prerequisite(s): One year of biology.

BIO 310L  ECOLOGY LABORATORY  
Field and laboratory exercises to accompany BIO 310. May be taken concurrently with or following BIO 310.

BIO 311  INTRODUCTORY ENTOMOLOGY  

Classification, physiology, ecology, and impact of insects on society.

Prerequisite(s): BIO 151, 152.

BIO 312  GENERAL GENETICS
Study of the principles of variation and heredity covering both Mendelian and molecular genetics. Core biology course

BIO 312L  GENETICS LABORATORY
Laboratory exercises to accompany BIO 312. May be taken concurrently with or following the lecture course

BIO 314  PLANT BIOLOGY
Consideration of structure, function, reproduction, and inheritance as applicable in the plant patterns of life. Emphasis on the vascular plants.

Prerequisite(s): Minimum of one course in biology.

BIO 314L  PLANT BIOLOGY LABORATORY
Laboratory exercises to accompany BIO 314. Emphasis on generalized structure and function of plants. One 3-hour laboratory each week

BIO 320  MARINE BIOLOGY
Introduction to the diversity of marine life including the physical-chemical environment. Third term only

BIO 320L  MARINE BIOLOGY LABORATORY
Examination of marine organisms and processes. Laboratory work conducted on UD campus and at off-campus field sites in the South. Third term only

BIO 330  ANIMAL BEHAVIOR
An evolutionary approach to the study of animal behavior, emphasizing both proximate mechanisms and functional explanations of the survival value of behavior

Prerequisite(s): One year of biology.

BIO 330L  ANIMAL BEHAVIOR LABORATORY
Field and laboratory exercises to accompany BIO 330. Should be taken concurrently with BIO 330. One 3-hour laboratory each week and occasional Saturday field trips

BIO 350  APPLIED MICROBIOLOGY
Fundamentals of applied and environmental microbiology for environmental scientists and engineers. Introduction to microorganisms and their role in bioenvironmental engineering and industrial processes. For non-biological science majors only

Prerequisite(s): Introductory biology; general and organic chemistry.

BIO 350L  APPLIED MICROBIOLOGY LABORATORY
An introductory laboratory to acquaint students with basic microbiology laboratory techniques as applied to environmental pollution and industrial fermentations

BIO 360  ISLAND ENVIRONMENTAL BIOLOGY
Field lecture course on environments of Pacific Islands. Study of volcanic geology, island morphology/weather-patterns, native culture, economic development, freshwater-marine continuum and water resource utilization on unique biological habitats.

Prerequisite(s): Permission of instructor.

Corequisite(s): BIO 360L.

BIO 360L  ISLAND ENVIRONMENTAL BIOLOGY LAB
Lab field course on Pacific Islands. Ecology of elevational and rainforest-desert gradients, volcanic mountain streams, watersheds, and coral systems with experimental design, data collection and analysis.

Prerequisite(s): Permission of instructor.

Corequisite(s): BIO 360.

BIO 370  CONSERVATION BIOLOGY
An ecosystem approach to the study of and threat to local, regional, and global biodiversity. Application of ecological principles of conservation of
### BIO 390 PHYSIOLOGY OF SEX AND FERTILITY REGULATION

Introduction to the role of hormones, glands, organs, and devices in the regulation of sexual functions and fertility. No science credit for biological science majors.  
**Prerequisite(s):** Introductory biology.

### BIO 395 GLOBAL ENVIRONMENTAL BIOLOGY

Presentation of the biological and ecological principles needed for critical discussion and evaluation of current global environmental issues including food production, human population growth, role of humans and pollution in environmental degradation, and conservation of agricultural, forest and other natural resources. No science credit for biology majors.  
**Prerequisite(s):** Junior or senior standing.

### BIO 402 VERTEBRATE ZOOLOGY

The morphology, physiology, ecology, and distribution of representative vertebrate groups.  
**Prerequisite(s):** Junior or senior standing.

### BIO 402L VERTEBRATE ZOOLOGY LABORATORY

Course to accompany BIO 402. A laboratory focused on the diversity, systematics and ecology of vertebrates. One 3-hour period each week.

### BIO 403 PHYSIOLOGY I

A physico-chemical examination of the physiological events occurring in a living system with emphasis on physiology of the cell, excretion, nerves, muscles, bone, blood, heart, circulation, and respiration.  
**Prerequisite(s):** (BIO 101-102 or BIO 151-152); CHM 313-314.

### BIO 403L PHYSIOLOGY LABORATORY I

Course to accompany BIO 403. Systematic approach to the acquisition and interpretation of information about the physiology of living systems.

### BIO 404 PHYSIOLOGY II

Study of hormonal regulation of metabolism and growth and reproduction of higher vertebrates, including primates.  
**Prerequisite(s):** (BIO 101-102 or BIO 151-152); CHM 313-314.

### BIO 409 ECOLOGICAL RESTORATION

Principles and practices of ecological restoration. The course presents the rationale and knowledge needed to understand, appreciate, plan and perform ecological restoration.  
**Prerequisite(s):** Permission of instructor.

### BIO 409L ECOLOGICAL RESTORATION LABORATORY

Provides practical applications of the principles of ecological restoration to a variety of ecosystems.  
**Corequisite(s):** BIO 409.

### BIO 411 GENERAL MICROBIOLOGY

Introductory course stressing the physiology, cultivation, and classification of microbial organisms; their role in medicine, agriculture, and industry.  
**Prerequisite(s):** (BIO 101-102 or BIO 151-152); CHM 313-314.

### BIO 411L GENERAL MICROBIOLOGY LABORATORY

Course to accompany BIO 411. One 3-hour period each week.

### BIO 415 NEUROBIOLOGY

Structure and function of the brain and nervous system. Emphasis on understanding cellular and molecular events within the nervous system using model organisms.  
**Prerequisite(s):** BIO 151-152; CHM 123-124.

### BIO 420 SEMINAR

Practice in development, presentation, and discussion of papers dealing with biological research problems.  
**Prerequisite(s):** Junior or senior standing.
BIO 421 BIOLOGICAL PROBLEMS
Laboratory research problems. Topics arranged with faculty advisors
Prerequisite(s): Permission of department chairperson.

BIO 422 BIOLOGICAL PROBLEMS
Library research problems. Topics arranged with faculty advisors
Prerequisite(s): Permission of department chairperson.

BIO 425 PARASITOLOGY
Introduction to the morphology, life history, and clinical significance of parasites and other symbionts
Prerequisite(s): BIO 101-102 or BIO 151-152.

BIO 425L PARASITOLOGY LABORATORY
Course to accompany BIO 425. Recognition of common human parasites. Study of both living and preserved forms. One 3-hour period each week.

BIO 427 IMMUNOLOGY
Discussions of antigens, antibodies, antigenicity, immunogenicity, and antigen-antibody reactions including hypersensitivity, immune tolerance, and transplants
Prerequisite(s): CHM 420.

BIO 435 MICROBIAL ECOLOGY
Study of the diversity and activity of microorganisms and the interrelationships between microorganisms and their environments with emphasis on aquatic ecosystems
Prerequisite(s): BIO 411; CHM 313-314.

BIO 435L MICROBIAL ECOLOGY LABORATORY
Examination of the methods of isolation and enumeration of microorganisms and techniques for determining their activities in the field and laboratory.

BIO 439 ANALYSIS AND INTERPRETATION OF BIOLOGICAL DATA
Introducing the nature of some of the important types of data that are generated in biological research, the databases that warehouse such data, the principles involved in the analysis of such data, the use of appropriate software to analyze such data, and the biological interpretation of the results of analysis.
Prerequisite(s): BIO 151-152.

BIO 440 CELL BIOLOGY
Function, structure, composition, heredity, and growth of cells. Analysis of cell concept in biochemical terms
Prerequisite(s): (BIO 101-102 or BIO 151-152); CHM 313-314.

BIO 440L CELL BIOLOGY LABORATORY
Laboratory exercises to accompany BIO 440. May be taken concurrently with or following BIO 440
Prerequisite(s): BIO 440.
Corequisite(s): BIO 440.

BIO 441 ENVIRONMENTAL PLANT BIOLOGY
Study of the physiological basis for environmental effects on plant metabolism, structure, growth and development, including plant responses to elevated carbon dioxide, acid deposition, and to water stress
Prerequisite(s): BIO 101-102 or BIO 151-152.

BIO 442 DEVELOPMENTAL BIOLOGY
Study of animal development, including morphological patterns of development, mechanisms of cellular differentiation, cell-cell interactions during development, and mechanisms of differential gene expression. Emphasis on understanding development at the cellular and molecular levels
Prerequisite(s): (BIO 101-102 or BIO 151-152); CHM 313-314.

BIO 442L DEVELOPMENTAL BIOLOGY LABORATORY
Laboratory exercises to accompany BIO 442. May be taken concurrently with or following BIO 442.
**Prerequisite(s):** BIO 442.  
**Corequisite(s):** BIO 442.

**BIO 444** PLANT DIVERSITY  
Broad survey of the major divisions of the plant kingdom; consideration of algae, fungi, bryophytes, vascular plant groups; includes generalized life histories, ecological and physiological characteristics, and evolutionary relationships

**BIO 444L** PLANT DIVERSITY LABORATORY  
Laboratory studies of the plant groups, including life cycles and evolutionary, physiological, and ecological adaptations. One 3-hour laboratory each week

**BIO 450** COMPARATIVE ANIMAL PHYSIOLOGY  
Organized on a function-system basis, course dealing with environment-organism interaction and with integrative systems of the principle phyla of animals

**BIO 450L** COMPARATIVE ANIMAL PHYSIOLOGY LABORATORY  
Laboratory to accompany BIO 450. Must be taken concurrently with BIO 450  
**Corequisite(s):** BIO 450.

**BIO 452** AQUATIC BIOLOGY  
The interrelationship of organisms and stream and lake ecosystems, including nutrient cycles, oceanic and lake current development, chemical limnology, adaptation to the aquatic environment, and pollution ecology

**BIO 452L** AQUATIC BIOLOGY LABORATORY  
Laboratory and field exercises emphasizing chemical and physical limnology, evolution of aquatic ecosystems, and pollution ecology. One laboratory or field trip each week

**BIO 459** ENVIRONMENTAL ECOLOGY  
The application of current ecological knowledge and principles toward the study of human impact on the environment. Emphasis on ecosystem dynamics, applied ecology, disturbance ecology, and approaches to solving global environmental problems  
**Prerequisite(s):** BIO 430 or permission of instructor.

**BIO 459L** ENVIRONMENTAL ECOLOGY LABORATORY  
Analytical approach to studying applied ecology and human impact on the environment. Emphasis on laboratory and field approaches to solving environmental problems through the use of ecological principles. Prerequisite or corequisite: BIO 459.  
**Prerequisite(s):** BIO 459.  
**Corequisite(s):** BIO 459.

**BIO 460** INTRODUCTION TO BIOINFORMATICS  
This course introduces the concepts involved in bioinformatics, using the appropriate material from the disciplines of biology, chemistry and computer science, among others.  
**Prerequisite(s):** (BIO 152; junior or senior standing) or permission of instructor.

**BIO 461** INVERTEBRATE ZOOLOGY  
Survey of the structure, activities, life histories, and relationships of the invertebrate animals, with some emphasis on their origin and development  
**Prerequisite(s):** BIO 101-102 or BIO 151-152.

**BIO 461L** INVERTEBRATE ZOOLOGICAL LABORATORY  
Course to accompany BIO 461. One 3-hour laboratory each week

**BIO 462** MOLECULAR BIOLOGY  
Analysis of the nature of the gene and gene action. Particular attention to genetic regulation and to recent advances in molecular genetics  
**Prerequisite(s):** BIO 312; CHM 314.

**BIO 466** BIOLOGY OF INFECTIOUS DISEASE  
The nature of infectious diseases, host-parasite relationships in resistance and infection, defense mechanism (antigen-antibody response); survey of...
the bacteria causing disease in humans
**Prerequisite(s):** BIO 411.

BIO 466L **BIOLOGY OF INFECTIOUS DISEASE LABORATORY**
Laboratory experiments to demonstrate immunological, serological, determinative, and medical bacteriology. Two 2-hour laboratory periods each week.

**Prerequisite(s):** BIO 411.

BIO 477 **HONORS THESIS PROJECT**
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
**Prerequisite(s):** Approval of the University Honors Program.

BIO 478 **HONORS THESIS PROJECT**
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

BIO 479L **ENVIRONMENTAL INSTRUMENTATION LABORATORY**
The understanding and use of field and laboratory based equipment to study current environmental issues. Emphasis on team-centered approaches to investigating environmental problems. Same as GEO 479L.
**Prerequisite(s):** (BIO 151-152; GEO 115, 116) or permission of instructor.

BIO 480 **PRINCIPLES OF MICROSCOPY**
Focus on basic principles and theory of light and electron microscopy, and how these techniques address fundamental questions in science.
**Prerequisite(s):** BIO 151-152 or permission of instructor.

BIO 480L **PRINCIPLES OF MICROSCOPY LABORATORY**
Application and practice of light and electron microscopy.
**Prerequisite(s):** BIO 480.
**Corequisite(s):** BIO 480.

BIO 489 **MYCOLOGY**
Introductory course stressing the interrelationship between fungi and the rest of the biological world. Emphasis on the basic biology and ecology of fungi, decomposition, species interactions, plant pathology and medical mycology.
**Prerequisite(s):** One year of introductory biology.

BIO 499 **ENVIRONMENTAL BIOLOGY INTERNSHIP**
Majors will have the opportunity to obtain valuable training and experience under the mentorship of established scientists and professionals. Emphasis on approaches to solving environmental problems including such research areas as bioremediation, risk assessment, and ecological restoration. May be repeated up to 6 sem. hrs.
**Prerequisite(s):** Junior or senior standing; permission of the program director.
School of Business Administration
(BAI) Business Interdisciplinary Studies

<table>
<thead>
<tr>
<th>Courses (Collapse All Courses)</th>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAI 103L BUSINESS COMPUTING LABORATORY</td>
<td>1</td>
<td>Introduction to business software skills including HTML, Microsoft Excel and PowerPoint, and Lotus email and calendar.</td>
<td></td>
</tr>
<tr>
<td>BAI 150 BUSINESS EDUCATIONAL PLANNING</td>
<td>1</td>
<td>Introduction to the School of Business Administration, the University, and educational planning.</td>
<td></td>
</tr>
<tr>
<td>BAI 151 BUSINESS INTEGRATION EXPERIENCE</td>
<td>1</td>
<td>Integrated introduction to major business processes and decision making.</td>
<td></td>
</tr>
<tr>
<td>BAI 199 BUSINESS SCHOLARS FORUM I</td>
<td>1</td>
<td>Exploration and discussion of a wide range of business topics. Weekly sessions led by faculty members and guest professionals in their areas of expertise. Open only to first-year Business Scholars or with permission of the Dean's office.</td>
<td></td>
</tr>
<tr>
<td>BAI 201 BUSINESS SCHOLARS FORUM II</td>
<td>1</td>
<td>Similar to BAI 199 with topics geared toward sophomore Business Scholars. Open only to sophomore Business Scholars or with permission of the Dean's office.</td>
<td></td>
</tr>
<tr>
<td>BAI 295 CAREER DEVELOPMENT SEMINAR</td>
<td>1</td>
<td>Seminar for exploration of career options. Involves exploring career options, investigating tentative career choices, deciding on potential career direction, and developing the knowledge and skill to pursue a career direction. Should be taken second semester sophomore year or either semester junior year. In management and marketing, BAI 295 is a prerequisite for internship or co-op experience if either is undertaken for academic credit.</td>
<td></td>
</tr>
<tr>
<td>BAI 301 PRACTICUM IN INTERNATIONAL BUSINESS</td>
<td>3</td>
<td>Study and analysis of international business concepts: objectives and ethics; planning; decision-making; business skills and entrepreneurial aptitudes. Comparative analysis of various cultures and their impact on international business operation.</td>
<td></td>
</tr>
<tr>
<td>BAI 400 DEAN'S LEADERSHIP LABORATORY</td>
<td>1</td>
<td>Upper-class student participation in first-year student advising program. Permission of dean’s office required.</td>
<td></td>
</tr>
<tr>
<td>BAI 497 LABORATORY WORK EXPERIENCE</td>
<td>3</td>
<td>Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, or governmental organization; practical experience in work associated with the student's major or minor concentration. (See internship coordinator for details.) Does not count toward major. Permission of dean is required.</td>
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</tr>
</tbody>
</table>
Chemical and Materials Engineering

Chemical engineering applies the principles of the physical sciences, economics, and human relations to research, design, build, and supervise facilities that convert raw materials into useful products and services.

The majority of chemical engineers are involved in the chemical process industries that produce many of the materials and items needed in everyday life. These include medicine, food, fertilizers, plastics, synthetic fibers, petroleum, petrochemicals, ceramics, and pulp and paper products. A chemical engineer may pursue a professional career in many other fields, such as energy conversion, pollution control, medical research, and materials development in aerospace and electronic industries. Chemical engineers are employed in research, development, design, production, sales, consulting, and management positions. They are also found in government and education. Many use a chemical engineering education as a stepping stone to law, medicine, or corporate management.

The curriculum in chemical engineering serves as basic training for positions in these diverse areas of the manufacturing industry or graduate study leading to advanced degrees. The first part of the chemical engineering curriculum provides a firm foundation in mathematics, physics, and chemistry. The chemistry background is stressed. The second part of the curriculum offers a balance between classroom and laboratory experience in stressing chemical engineering topics such as transport phenomena, thermodynamics, kinetics and reactor design, separation processes, fluid flow and heat transfer operations, process control, and process design. The development of design tools, communication, and interpersonal skills is integrated throughout the curriculum. The curriculum allows minors in emerging technologies such as bioengineering, environmental engineering and materials engineering. Those interested in attending medical / dental school can pursue a premed preparation as part of their curriculum.

The educational objectives of the chemical engineering program are to produce graduates who:
- have successful careers in the chemical process industry with the skills necessary to pursue opportunities to work in multidisciplinary and non-traditional industries and positions.
- are successful at prestigious graduate, medical, and law schools.
- are committed to performing ethically while serving their professions, companies, and communities.
- from the depth of their foundations in engineering principles and the breadth of their general education, exhibit strong critical thinking, technical, and professional skills; and engage in continuous intellectual and personal growth.

Faculty

Tony E. Saliba, Chairperson, Department of Chemical and Materials Engineering
Professors Emeriti: Lu, Snide
Professors: Dai, Eylon, Flach, Lee, Myers, T. Saliba, Sandhu
Assistant Professor: Wikens
Lecturer: Ciric

Majors/Minors

Major/Minor Name
☐ Bachelor of Chemical Engineering (CME)

Sem. Hrs.

<table>
<thead>
<tr>
<th>First-Year</th>
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<tbody>
<tr>
<td>CHM 123-123L</td>
<td>GENERAL CHEMISTRY (CHM 123)</td>
<td>4</td>
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<tr>
<td></td>
<td>GENERAL CHEMISTRY LABORATORY (CHM 123L)</td>
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<tr>
<td>CHM 124-124L</td>
<td>GENERAL CHEMISTRY (CHM 124)</td>
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<tr>
<td></td>
<td>GENERAL CHEMISTRY LABORATORY (CHM 124L)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CME 101</td>
<td>INTRODUCTION TO CHEMICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
<td>0-3</td>
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<tr>
<td>EGR 101</td>
<td>INTRODUCTION TO ENGINEERING DESIGN</td>
<td>2-3</td>
</tr>
<tr>
<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101) or COLLEGE COMPOSITION II (ENG 102)</td>
<td>3-6</td>
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<tr>
<td>HST 103 or 198</td>
<td>THE WEST AND THE WORLD (HST 103) or HISTORIC SCHOLARS' SEMINAR (HST 198)</td>
<td>3</td>
</tr>
<tr>
<td>MTH 198</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 189</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 206</td>
<td>GENERAL PHYSICS I-MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
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<tr>
<td></td>
<td>Fundamentals of Communication</td>
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**Sophomore-Year**

### First-Term

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHM 313-313L</td>
<td>ORGANIC CHEMISTRY (CHM 313)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ORGANIC CHEMISTRY LABORATORY (CHM 313L)</td>
<td></td>
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<tr>
<td>CME 201</td>
<td>MATERIAL BALANCES</td>
<td>3</td>
</tr>
<tr>
<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
<td>4</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
</tr>
<tr>
<td>PHY 207</td>
<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Course</td>
<td>3</td>
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<tr>
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<td>Fundamentals of Communication</td>
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### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHM 314-314L</td>
<td>ORGANIC CHEMISTRY (CHM 314)</td>
<td>4</td>
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<tr>
<td></td>
<td>ORGANIC CHEMISTRY LABORATORY (CHM 314L)</td>
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</tr>
<tr>
<td>CME 202</td>
<td>ENERGY BALANCES</td>
<td>3</td>
</tr>
<tr>
<td>CME 281</td>
<td>CHEMICAL ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Communication</td>
<td>1</td>
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</table>

**Junior-Year**

### First-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CME 311</td>
<td>CHEMICAL ENGINEERING THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>TRANSPORT PHENOMENA I</td>
<td>3</td>
</tr>
<tr>
<td>CME 381</td>
<td>ADVANCED MATHEMATICS FOR CHEMICAL ENGINEERS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMM Fundamentals of Communication</td>
<td>1</td>
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<tr>
<td></td>
<td>CHM Physical Chemistry elective &amp; Laboratory</td>
<td>4</td>
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</table>

### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CME 325</td>
<td>TRANSPORT PHENOMENA II</td>
<td>3</td>
</tr>
<tr>
<td>CME 326L</td>
<td>TRANSPORT PHENOMENA LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>CME 365</td>
<td>SEPARATION TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Course</td>
<td>3</td>
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<td></td>
<td>CHM elective</td>
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<tr>
<td></td>
<td>Engineering elective</td>
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**Senior-Year**

### First-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 406</td>
<td>CHEMICAL REACTION KINETICS AND ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CME 408</td>
<td>SEMINAR</td>
<td>0-1</td>
</tr>
<tr>
<td>CME 430</td>
<td>CHEMICAL ENGINEERING DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>CME 452</td>
<td>PROCESS CONTROL</td>
<td>3</td>
</tr>
<tr>
<td>CME 465</td>
<td>FLUID FLOW AND HEAT TRANSFER PROCESSES</td>
<td>3</td>
</tr>
</tbody>
</table>
Chemical, mechanical and civil engineering students are not required to take any programming course in the first-year. Computer engineering students must take CPS 150 in the second semester; electrical engineering students must take CPS 130 in the second semester; mechanical engineering students take MEE 104L in the second semester of the first year.

Chemical engineering students must take CHM 124 and CHM 124L in the second semester and postpone one of the three Humanities Base courses until the third semester.

Chemical, civil, and mechanical engineering students must take CHM 123L; Computer Engineering students postpone this requirement until the third semester and take PHY 210L; and electrical engineering students may take either CHM 123L or PHY 210L.

Chemical and civil engineering majors take CMM the second semester. Electrical, computer and mechanical engineering majors postpone this requirement.

All engineering, mathematics, and science courses must be taken for grading option 1.

Select between EGM 213 (4 cr. hrs.) or ELE 323 (4 cr. hrs.)

Select from CHM 303 & 303L or CHM 304 & 304L.

Must be selected from approved list of PHL and REL ethics courses.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 101</td>
<td>INTRODUCTION TO CHEMICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Introduction to the chemical engineering faculty, facilities, and curriculum; survey of career opportunities in chemical engineering. Introduction to the University first-year experience</td>
<td></td>
</tr>
<tr>
<td>CME 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td></td>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
</tr>
<tr>
<td>CME 201</td>
<td>MATERIAL BALANCES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introductory course on the application of mass conservation laws to solve problems typically encountered in the chemical process industries. Course to include dynamic systems and instrumentation. First term each year. <strong>Prerequisite(s):</strong> CHM 123; MTH 168.</td>
<td></td>
</tr>
<tr>
<td>CME 202</td>
<td>ENERGY BALANCES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introductory course on the application of energy conservation laws to solve problems typically encountered in the chemical process industries. Course to include introduction to thermodynamics, dynamic systems and instrumentation. Second term each year. <strong>Prerequisite(s):</strong> CME 201.</td>
<td></td>
</tr>
<tr>
<td>CME 281</td>
<td>CHEMICAL ENGINEERING COMPUTATIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Development of computational skills and digital data acquisition with an emphasis on algorithm development and problem solving. Applications to problems typically encountered in chemical engineering. Second term, each year. <strong>Prerequisite(s):</strong> CME 201.</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>CME 298</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1-6</td>
</tr>
<tr>
<td>CME 311</td>
<td>CHEMICAL ENGINEERING THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>TRANSPORT PHENOMENA I</td>
<td>3</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td>CME 325</td>
<td>TRANSPORT PHENOMENA II</td>
<td>3</td>
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<tr>
<td>CME 326L</td>
<td>TRANSPORT PHENOMENA LABORATORY</td>
<td>1</td>
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<tr>
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</tr>
<tr>
<td>CME 365</td>
<td>SEPARATION TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td>CME 381</td>
<td>ADVANCED MATHEMATICS FOR CHEMICAL ENGINEERS</td>
<td>3</td>
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<tr>
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<tr>
<td>CME 398</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1-6</td>
</tr>
<tr>
<td>CME 406</td>
<td>CHEMICAL REACTION KINETICS AND ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CME 408</td>
<td>SEMINAR</td>
<td>0-1</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>CME 409</td>
<td>INTRODUCTION TO POLYMER ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CME 430</td>
<td>CHEMICAL ENGINEERING DESIGN I</td>
<td>3</td>
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</tbody>
</table>

Prerequisite(s): CME 202; MTH 218.  
Prerequisite(s): CME 202, 281; MTH 219.  
Prerequisite(s): CME 381.  
Prerequisite(s): CME 324, 381.  
Prerequisite(s): CME 324.  
Prerequisite(s): CME 325.  
Prerequisite(s): CME 281; MTH 219.  
Prerequisite(s): CME 311, 324.  
Prerequisite(s): CME 311.  
Prerequisite(s): CME 311; CME 311.
Study of the principles of process development, plant design, and economics. First term, each year

Prerequisite(s): CME 202.

CME 431  CHEMICAL ENGINEERING DESIGN II
Application of the principles of process development, plant design, and economics. Second term, each year

Prerequisite(s): CME 365, 406, 430, 465.

CME 452  PROCESS CONTROL
Mathematical models, Laplace transform techniques, and process dynamics. Feedback control systems, hardware, and instrumentation. Introduction to frequency response, advanced techniques, and digital control systems. First term, each year

Prerequisite(s): CME 381.

CME 453L  PROCESS CONTROL LABORATORY
Project-oriented study of process dynamics and control using computer-based data acquisition and control systems. Second term, each year

Prerequisite(s): (CME 452, 466L) or permission of instructor.

CME 465  FLUID FLOW AND HEAT TRANSFER PROCESSES
Fluid mechanics, transportation and metering of fluids, agitation and mixing, heat transfer and its applications. First term, each year

Prerequisite(s): CME 311, 324.

CME 466L  CHEMICAL ENGINEERING UNIT OPERATIONS LABORATORY
Study of the equipment and utilization of various chemical engineering processes. First term, each year

Prerequisite(s): CME 365.
Corequisite(s): CME 465.

CME 486  INTRODUCTION TO PETROLEUM ENGINEERING
Introduction to the fundamental concepts in petroleum engineering. Petroleum topics include overviews of areas such as petroleum geology, petroleum fluids and thermodynamics, drilling and completion, and production and multiphase flow. In addition this course will cover refinery operations. Second term, each year.

CME 490  INTRODUCTION TO BIOENGINEERING
Overview of Biomedical Engineering, Transport Phenomena in Physiological Systems, Kinetic and Reactor Modeling for Physiological Systems. Overview of Biochemical Engineering, Bioreactors, Bioseparation Processes. First term, each year

Prerequisite(s): (CHM 420 or 451); CME 325, 365.
Corequisite(s): CME 406 or permission of instructor.

CME 491  BIOMEDICAL ENGINEERING
Introduction to the fundamental concepts in biomedical engineering with a special focus on chemical engineering applications. Biomedical topics include overviews of areas such as biomaterials, tissue engineering, biosensors and biomedical engineering technology. Second term, each year.

Prerequisite(s): (BIO 151; (CHM 420 or 451); CME 324, 365) or permission of instructor.

CME 498  RESEARCH AND INNOVATION LABORATORY
1 - 6
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

CME 499  SPECIAL PROBLEMS IN CHEMICAL ENGINEERING
1 - 6
Particular assignments to be arranged and approved by chairperson of the department
College of Arts and Sciences

(CHM) Chemistry (Collapse Description)

The B.A. program in chemistry provides a framework of scientific courses which serves as a preparation for a number of interdisciplinary professions. The traditional B.S. curriculum has been modified in the B.A. program, most notably in mathematics, physics, and advanced chemistry. The program is sufficiently flexible to afford a wide selection of courses in the humanities. Science courses may be chosen to provide a preparation for professions such as medicine, dentistry, optometry, veterinary medicine, biochemistry, education, and law, as well as for employment in many other areas which require a background in science.

The B.S. program in chemistry is approved by the American Chemical Society for the training of professional chemists. Students in the B.S. program in chemistry are required to conduct an original research project. Satisfaction of this requirement normally begins with enrollment in CHM 495 and selection of a research professor and project during the second term of the junior year. The research project, conducted during the entire senior year, normally requires two work periods of 3 to 4 hours each a week. The project culminates in the final term of the senior year with enrollment in CHM 498, the submission of an acceptable thesis, and the presentation of a seminar in CHM 497. Additional research work to a maximum total of 6 semester hours may be elected provided that the work extends beyond two semesters. Cooperative education students may substitute work experience for research with the prior approval of the department chairperson.

The B.S. program in biochemistry follows a curriculum which satisfies the needs of students who anticipate careers in the life sciences. A mark of distinction and rigor is that each student is required to conduct research, which normally includes a ten-week summer period following their junior year and culminates with the submission of a research thesis and the presentation of a seminar.

A minor in chemistry consists of twenty semester hours.

Faculty

David W. Johnson, Chairperson
Distinguished Service Professors: Lucier
Professors: Fratini, R. Keil, Knachel, Morrow, Singer
Associate Professors: Church, Johnson
Assistant Professors: Benin, Swavey
Lecturer: Trick
Laboratory Instructors: Dichiara, Hils, Jeffery, P. Keil, Piepgrass, Tabesh, Webb

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Chemistry (CHA)

Chemistry

Sem. Hrs.

36

CHM 123-123L, 124-124L, 201-201L, (302 or 303 & 304), 313-313L, 314-314L, 496

23-26

CHM electives (select courses from):^2

10-13


Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies

12

History

6

Literature: English or Foreign Language

3

Creative and Performing Arts

3

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<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tr>
<td>Foreign Language and/or Additional Arts</td>
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<tr>
<td>and/or Humanities</td>
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<tr>
<td>Social Sciences</td>
<td>12</td>
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<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
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<tr>
<td>Natural Sciences</td>
<td>8</td>
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<tr>
<td>PHY 201-201L, 202-202L</td>
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<tr>
<td>Communication Competencies</td>
<td>3-9</td>
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<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
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<tr>
<td>General Education courses/academic electives to total at least</td>
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</table>

1Advanced placement is permitted.
2May substitute two upper level courses from other science departments with permission of chairperson.

Bachelor of Science with a major in Biochemistry (BCM)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Chemistry</td>
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<tr>
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<tr>
<td>Year 2</td>
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<td>CHM 303-303L, 304, 451, 452, 462L, 495, 498</td>
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<td>CHM 496, 497</td>
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<tr>
<td>Biology</td>
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<td>BIO 151, 152-152L</td>
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<td>Year 2</td>
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<td>BIO elective and laboratory</td>
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<td>Breadth Requirement</td>
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<tr>
<td>Natural Sciences</td>
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<tr>
<td>PHY 206, 207, 210L</td>
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<td>Select courses from:</td>
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<td>BIO 312, 314, 403, 404, 411, 440, 462, 466</td>
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<td>CHM 404, 412, 415, 415L, 417, 418L, 427, 499</td>
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<tr>
<td>Mathematics, Computer Science</td>
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<td>CPS 132</td>
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<td>MTH 168, 169, 218</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Social and Behavioral Sciences</td>
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<td>Humanities</td>
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<td>Philosophy and Religious Studies</td>
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<td>Communication Competencies</td>
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<td>General Education courses/academic electives to total at least</td>
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1Advanced placement is permitted.

Bachelor of Science with a major in Chemistry (CHM)

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<tr>
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CHM 123-123L, 124-124L

Year 2
CHM 201-201L, 313-313L, 314-314L

Year 3
CHM 303-303L, 304-304L, 317, 417, 418L, 495

Year 4
CHM 415-415L, (420 or (451 & 452)), 496, 497, 498

CHM electives (select courses from):^1
CHM 404, 412, 427, 462L, 490L, 499

Breadth Requirement

Mathematics, Computer Science^3 15
CPS 132 3
MTH 168, 169, 218 12
Foreign Language 6-8
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

^1 Advanced placement is permitted.
^2 May substitute one approved science course from another department.
^3 Should be completed during the first two years.

Minor in Chemistry (CHM)

Chemistry

CHM 123-123L, 124-124L, (302 or 303) 11
Nine additional semester hours (300- or 400-level, excludes CHM 490L)^1

^1 In consultation with the chairperson.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
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<th>Sem. Hrs.</th>
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<td>CHM 115</td>
<td>COLLEGE PREPARATORY CHEMISTRY</td>
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<tr>
<td></td>
<td>A one-term course for students desiring to enter a science or engineering program but whose background is insufficient for CHM 123-124. Unacceptable for credit toward chemistry requirements in any chemistry program</td>
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<tr>
<td>CHM 115L</td>
<td>COLLEGE PREPARATORY CHEMISTRY LABORATORY</td>
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<tr>
<td></td>
<td>Course to accompany CHM 115 or to be elected by students in CHM 200 who lack previous chemistry laboratory experience. One 3-hour laboratory each week</td>
<td></td>
</tr>
<tr>
<td>CHM 123</td>
<td>GENERAL CHEMISTRY</td>
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<tr>
<td></td>
<td>Comprehensive treatment of the fundamentals of general chemistry. Prerequisite(s): Requires one year of high school chemistry or equivalent.</td>
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<tr>
<td>CHM 123L</td>
<td>GENERAL CHEMISTRY LABORATORY</td>
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<tr>
<td></td>
<td>Laboratory course to complement CHM 123. One 3-hour laboratory session each week Corequisite(s): CHM 123.</td>
<td></td>
</tr>
<tr>
<td>CHM 124</td>
<td>GENERAL CHEMISTRY</td>
<td>3</td>
</tr>
</tbody>
</table>
Comprehensive treatment of the fundamentals of general chemistry.

**Prerequisite(s):** CHM 123.

CHM 124L  GENERAL CHEMISTRY LABORATORY
Laboratory course to complement CHM 124. One 3-hour laboratory session each week

**Prerequisite(s):** CHM 124.

CHM 200  CHEMISTRY AND SOCIETY
A course for nonscience majors. The application of chemical principles to the examination of issues such as environmental quality, disease, hunger, synthetic materials, and law enforcement. Depending upon background and experience, a student needing a laboratory course may enroll in either CHM 115L or CHM 123L

**Prerequisite(s):** Requires one year of high school chemistry or equivalent.

CHM 201  QUANTITATIVE ANALYSIS
Application of the principles of chemical equilibrium to the theory and techniques of gravimetric, volumetric, spectrophotometric, and electroanalytical methods of chemical analysis

**Prerequisite(s):** CHM 124, 124L.

CHM 201L  QUANTITATIVE ANALYSIS LABORATORY
Course to accompany CHM 201. One 3-hour laboratory period each week

CHM 302  PHYSICAL CHEMISTRY
Essential elements of thermodynamics, chemical kinetics, equilibria, and electrochemistry for those with a primary interest in the life sciences. For B.A. chemistry majors and premedical, predental, and biology majors

**Prerequisite(s):** CHM 124.

CHM 303  PHYSICAL CHEMISTRY
Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers.

**Prerequisite(s):** CHM 201 or equivalent.

**Corequisite(s):** MTH 218.

CHM 303L  PHYSICAL CHEMISTRY LABORATORY
Course to accompany CHM 303. One 3-hour laboratory each week

**Prerequisite(s):** MTH 218.

CHM 304  PHYSICAL CHEMISTRY
Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers

CHM 304L  PHYSICAL CHEMISTRY LABORATORY
Course to accompany CHM 304. One 3-hour laboratory each week

**Corequisite(s):** MTH 218.

CHM 313  ORGANIC CHEMISTRY
Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences

**Prerequisite(s):** CHM 124.

CHM 313L  ORGANIC CHEMISTRY LABORATORY
Common separation, purification, and analytical techniques including chromatography and spectroscopy. One 3-hour laboratory each week

**Corequisite(s):** CHM 313.

CHM 314  ORGANIC CHEMISTRY
Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences

**Prerequisite(s):** CHM 313.

CHM 314L  ORGANIC CHEMISTRY LABORATORY
Synthesis and characterization of organic materials utilizing skills from CHM 313L. One 3-hour laboratory each week
Prerequisite(s): CHM 313L.
Corequisite(s): CHM 314.

CHM 317 SPEKTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS
The use of nuclear magnetic resonance, infrared, and mass spectrometry in elucidating structures. Emphasis on interpretation and integration of spectral data in problem solving
Prerequisite(s): (CHM 314, 314L) or equivalent.

CHM 341 ENVIRONMENTAL CHEMISTRY
An introduction to the chemical processes in the environment. Topics include chemical equilibrium in aqueous solution, reaction mechanisms as applied to atmospheric chemistry, and analytical methods commonly applied to environmental samples
Prerequisite(s): CHM 314 or permission of instructor.

CHM 341L ENVIRONMENTAL CHEMISTRY LABORATORY
A laboratory course to accompany CHM 341.
Corequisite(s): CHM 341.

CHM 404 SPECIAL TOPICS IN PHYSICAL CHEMISTRY
Thorough treatment of topics such as electrochemistry, macromolecules, photochemistry, or spectroscopy. May be repeated as topics change
Prerequisite(s): CHM 302 or 303.

CHM 412 INTERMEDIATE ORGANIC CHEMISTRY
Modern theory and practice of organic chemistry. May include structure-reactivity relationships, reaction mechanism, and synthetic topics not normally treated in introductory courses
Prerequisite(s): CHM 302 or equivalent; CHM 313-314; senior standing.

CHM 415 ANALYTICAL CHEMISTRY
Chemical analysis based on modern instrumentation. Chromatographic, electrochemical, and spectroscopic methods
Prerequisite(s): CHM 201-201L; (CHM 302 or 304).

CHM 415L ANALYTICAL CHEMISTRY LABORATORY
Course to accompany CHM 415. Two 3-hour laboratory sessions each week.
Prerequisite(s): CHM 201L; (CHM 302 or equivalent).

CHM 417 INORGANIC CHEMISTRY
An advanced course in modern inorganic chemistry. Atomic structure, principles of bonding and structure, acid-base chemistry, periodicity, coordination compounds, nonaqueous solvents, electrochemistry, molecular symmetry, organometallic compounds, and the chemistry of selected representative elements
Prerequisite(s): CHM 314.
Corequisite(s): CHM 302 or 304.

CHM 417L INORGANIC CHEMISTRY LABORATORY
Laboratory course dealing with the synthesis and characterization of inorganic and organometallic compounds. Topics include vacuum and inert atmosphere techniques, separation and purification, spectroscopic characterization, X-ray diffraction, magnetic moment, and conductance measurements
Prerequisite(s): CHM 201L, 314L.
Corequisite(s): CHM 417.

CHM 420 BIOCHEMISTRY
Prerequisite(s): CHM 314.

CHM 427 MEDICINAL CHEMISTRY
The chemical mechanisms of action of the major drug classes will be surveyed with particular emphasis on the facets of organic chemistry that control drug-receptor interactions, metabolism and mechanisms of toxicity and resistance. First term

**Prerequisite(s):** CHM 314; (CHM 420 or 451).

**CHM 451 GENERAL BIOCHEMISTRY I** 3
Discussion of the chemistry and biochemistry of carbohydrates, amino acids, proteins, and nucleic acids, including health-science and methodologic aspects. Descriptions of enzymology, protein purification, and carbohydrate metabolism related to such topics as bioenergetics, membranes, and disease processes. Recommended for students desiring entry into graduate and professional schools

**Prerequisite(s):** CHM 201, 314.

**CHM 452 GENERAL BIOCHEMISTRY II** 3
Discussion of selected topics in bioenergetics, and metabolism of lipids, amino acids, porphyrins, nucleic acids, and proteins. Current aspects of nutrition, biochemical genetics, endocrinology, regulation, and genetic engineering addressed and related to health-science topics as time permits. Suitable preparation for medical school

**Prerequisite(s):** CHM 451.

**CHM 452L BIOCHEMISTRY LABORATORY** 1
Laboratory course to accompany biochemistry lecture courses. Spectrophotometry, pH and dissociation, enzymologic methodology and analytical techniques, chromatographic techniques

**Corequisite(s):** CHM 420 or 451.

**CHM 477 HONORS THESIS PROJECT** 3
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**CHM 478 HONORS THESIS PROJECT** 3
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**CHM 490L SCIENTIFIC GLASSBLOWING** 1
Theory and practice of glass working. Under the supervision of a professional glassblower, students learn to make several standard seals and fabricate pieces of glass apparatus. Enrollment limited. One 3-hour laboratory each week. Grading Option 2

**Prerequisite(s):** Permission of department chairperson.

**CHM 495 INTRODUCTION TO RESEARCH SEMINAR** 0
Research topics presented by visiting scientists and faculty, and the results of thesis research by senior students. Required of all junior chemistry and biochemistry majors in the B.S. programs. Grading Option 2

**CHM 496 PROFESSIONAL PRACTICES SEMINAR** 0
After discussions of the chemical literature and information retrieval, resumes, graduate education, and career opportunities, students present technical talks on topics with social, ethical, or historical implications. Required of all chemistry and biochemistry majors, both B.S. and B.A

**CHM 497 RESEARCH SEMINAR** 0
A series of seminars as described under CHM 495. Required of all senior chemistry and biochemistry majors in the B.S. programs

**CHM 498 RESEARCH AND THESIS** 3
All students in the B.S. programs including Co-op are required to enroll for a minimum of 3 semester hours in a research course (CHM 498). Students may take additional research credits (CHM 499) if the work extends for more than 2 semesters. Successful completion of research courses requires the submission of a typewritten thesis and the presentation of a seminar. With the prior approval of the department chairperson, B.S. Co-op students may substitute work experience for research.

Prerequisite(s): Permission of department chairperson.

CHM 499 RESEARCH AND THESIS

1 - 3

All students in the B.S. programs including Co-op are required to enroll for a minimum of 3 semester hours in a research course (CHM 498). Students may take additional research credits (CHM 499) if the work extends for more than 2 semesters. Successful completion of research courses requires the submission of a typewritten thesis and the presentation of a seminar. With the prior approval of the department chairperson, B.S. Co-op students may substitute work experience for research.

Prerequisite(s): CHM 498; permission of department chairperson.
School of Engineering
Civil and Environmental Engineering and Engineering Mechanics

The Department of Civil and Environmental Engineering and Engineering Mechanics offers a broad-based curriculum leading to a Bachelor of Civil Engineering (BCE) degree. The BCE program offers sufficient elective courses to obtain a concentration in construction, environmental engineering, structures, water resources, geotechnical or transportation.

The mission of the program is to graduate broadly educated, technically competent individuals prepared for professional careers or for advanced studies.

Within the first several years following completion of the program, University of Dayton Bachelor of Civil Engineering graduates are expected to meet the following program educational objectives:

- have successful careers in civil engineering or non-traditional professions, or be completing graduate studies;
- conduct professional and personal endeavors in a responsible and ethical manner;
- accept leadership and service roles in their profession and community;
- be committed to continual professional and personal growth through a process of life-long learning.

Civil engineering is the profession in which knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgment to develop ways to economically utilize the materials and forces of nature in improving and protecting the environment and providing structures and facilities for community, industry, and transportation for the progressive well-being of humanity.

Civil engineers, leading users of high technology in wide-ranging applications in both the public and the private sectors, are essential to the continued improvement of society. Civil engineers can enter traditional fields such as construction, bridge and building design and analysis, highway design and traffic control, water treatment and distribution, environmental engineering, water resources, and geotechnics. Their broad education however, also prepares them for materials engineering, engineering management, and the aerospace, power, and automotive industries. Civil engineering has applications in conceptual and detail design, field operations, computers, and consulting.

Before enrolling in any engineering course required by the Civil Engineering Program, a grade of C- or better must be earned in all of the prerequisites courses for students majoring in civil engineering. Also, courses designated CEE or EGM may be repeated only once by students majoring in civil engineering.

Members of the student chapters of the American Society of Civil Engineers (ASCE), Chi Epsilon, Institute of Transportation Engineers (ITE), and National Society of Professional Engineers (NSPE) have the opportunity to meet regularly with practicing engineers in the Dayton community.

Faculty
Fred K. Bogner, Chairperson
Professor Emeritus: Payne
Distinguished Service Professor: Ryckman
Professors: Bogner, Phillips, J. Saliba, Whitney
Associate Professors: Safferman, Zoghi
Assistant Professors: Farhey
Lecturers: Alakkad, Chase
Adjunct Assistant Professors: Donaldson, McCrate, Sack

Majors/Minors
Major/Minor Name
Bachelor of Civil Engineering (CEE)
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<tr>
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<tr>
<td>CEE 101</td>
<td>INTRODUCTION TO CIVIL ENGINEERING</td>
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<td>CHM 123-123L</td>
<td>GENERAL CHEMISTRY (CHM 123)</td>
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<td>GENERAL CHEMISTRY LABORATORY (CHM 123L)</td>
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<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
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<td>CMM 111 or 112</td>
<td>INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
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<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
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<td>CMM 113</td>
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<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
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<td>EGR 101</td>
<td>INTRODUCTION TO ENGINEERING DESIGN</td>
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<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101)</td>
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<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
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<td>THE WEST AND THE WORLD (HST 103)</td>
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<td>HISTORY SCHOLARS' SEMINAR (HST 198)</td>
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<td>MTH 103</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
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<tr>
<td>MTH 109</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
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<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<td>PHY 206</td>
<td>GENERAL PHYSICS I-MECHANICS</td>
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<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
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<td>CEE 213</td>
<td>SURVEYING</td>
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<td>CEE 221L</td>
<td>CIVIL COMPUTATION LABORATORY</td>
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<td>CEE 408</td>
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<td>MECHANICS I</td>
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<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
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<td>4</td>
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<tr>
<td></td>
<td>CIVIL ENGINEERING ANALYSIS LABORATORY (CEE 320L)</td>
<td></td>
</tr>
<tr>
<td>CEE 408</td>
<td>SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td>GEO 219</td>
<td>ENGINEERING GEOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PHL 316 or REL 369</td>
<td>ENGINEERING ETHICS (PHL 316)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHRISTIAN ETHICS AND ENGINEERING (REL 369)</td>
<td></td>
</tr>
<tr>
<td>CEE 310L</td>
<td>CIVIL ENGINEERING LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>CEE 312-312L</td>
<td>GEOTECHNICAL ENGINEERING (CEE 312)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEOTECHNICAL ENGINEERING LABORATORY (CEE 312L)</td>
<td></td>
</tr>
<tr>
<td>CEE 317</td>
<td>ANALYSIS OF STRUCTURES II</td>
<td>3</td>
</tr>
<tr>
<td>CEE 333</td>
<td>WATER RESOURCES ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CEE 408</td>
<td>SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td>ECO 300</td>
<td>PRINCIPLES OF ECONOMICS</td>
<td>3</td>
</tr>
</tbody>
</table>
Technical elective 2  

Senior-Year

First-Term  
CEE 403  TRANSPORTATION ENGINEERING  3  
CEE 408  SEMINAR  0  
CEE 411  DESIGN OF STEEL STRUCTURES  3  
CEE 412  DESIGN OF CONCRETE STRUCTURES  3  
CEE 420  ENGINEERING ECONOMICS  1  
CEE 434  WATER & WASTEWATER ENGINEERING  3  
CEE 434L WATER & WASTEWATER ENGINEERING LABORATORY  1  
CEE elective 2 3  3  

Second-Term  
CEE 408  SEMINAR  0  
CEE 450  CIVIL ENGINEERING DESIGN  3  
HST 343  HISTORY OF CIVIL ENGINEERING  3  
Technical elective 2  3  
CEE electives 2 3  6  

1Three semester hours waived if accepted into ENG 198 or ENG 114.  
2Select from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.  
3May be used to concentrate studies in the areas of construction, environmental, structures, soils, transportation, and water resources engineering.  
4Admittance into CEE 450 requires successful completion of all required engineering courses with an average academic unit GPA of no less than 2.0, or the approval of the chair.

Courses  (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE E 101</td>
<td>INTRODUCTION TO CIVIL ENGINEERING</td>
<td>0 – 6</td>
</tr>
<tr>
<td></td>
<td>Introduction to the civil engineering faculty, facilities, and curriculum; to the career opportunities offered by the civil engineering profession; and to the areas of specialization within civil engineering</td>
<td></td>
</tr>
<tr>
<td>GE E 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 – 6</td>
</tr>
<tr>
<td></td>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
</tr>
<tr>
<td>GE E 213</td>
<td>SURVEYING</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Theory of measurements, computation, and instrumentation. Boundary and construction surveys, triangulation, and level net adjustments. First term, each year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite(s): MTH 168.</td>
<td></td>
</tr>
<tr>
<td>GE E 214</td>
<td>HIGHWAY GEOMETRICS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Study of circular and spiral curves, vertical curves, grade lines, earthwork and mass diagram, slope and grade stakes, and contour grading. Second term, each year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): CEE 213.</td>
<td></td>
</tr>
<tr>
<td>GE E 215L</td>
<td>SURVEYING FIELD PRACTICE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Field work and computation in topography, highway surveying, triangulation, level net, celestial observations, evaluation of errors, and preparation of plans. Five eight-hour days a week for three weeks. Summer, each year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): CEE 213, 214.</td>
<td></td>
</tr>
<tr>
<td>GE E 221L</td>
<td>CIVIL COMPUTATION LABORATORY</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Introduction to commonly-used software in civil engineering profession. Emphasis on the use of spreadsheets to solve civil engineering problems. Introduction to computer aided drawing and design and the use of popular</td>
<td></td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001813&p=1000001920&c=-1  7/10/2012
CADD packages in the civil engineering profession.
Corequisite(s): EGM 201.

CEE 298 RESEARCH AND INNOVATION LABORATORY 1 - 6
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

CEE 304 ADVANCED STRENGTH OF MATERIALS 3
Stresses and strains at a point; shear center, unsymmetrical bending; curved beams; flat plates; torsion of noncircular bars; beams on elastic support; buckling; introduction to mechanics of composite materials.  
Prerequisite(s): EGM 303.

CEE 310L CIVIL ENGINEERING LABORATORY 1
Experiments and studies relating the engineering properties of certain building materials to their fundamental nature and composition. Second term, each year  
Prerequisite(s): EGM 303.

CEE 312 GEOTECHNICAL ENGINEERING 3
Principles of soil structures, classification, capillarity, permeability, flow nets, shear strength, consolidation, stress analysis, slope stability, lateral pressure, bearing capacity, and piles. Second term, each year.  
Prerequisite(s): CEE 313; CEE 313L; EGM 303; GEO 218.  
Corequisite(s): CEE 312L.

CEE 312L GEOTECHNICAL ENGINEERING LABORATORY 1
Laboratory tests to evaluate and identify soil properties for engineering purposes. Design problems are also included. Second term, each year  
Corequisite(s): CEE 312.

CEE 313 HYDRAULICS 3
Basic principles of fluid mechanics in closed conduits and open channels. Principles include fluid statics, conservation of mass, conservation of momentum, conservation of energy, and fluid dynamics. Presentation of fluid mechanics principles through the solution of practical problems and a comprehensive semester project. First term, each year.  
Prerequisite(s): EGM 202.  
Corequisite(s): CEE 313L.

CEE 313L HYDRAULICS LABORATORY 1
Laboratory experiments and problems associated with CEE 313. First term, each year  
Corequisite(s): CEE 313.

CEE 316 ANALYSIS OF STRUCTURES I 3
Elastic analysis of structures; deflection, moment-area theorems; conjugate-beam; virtual work influence lines; shear center; unsymmetrical bending; stresses and strains at a point; theories of failure, stiffness matrices and use of software to analyze structures. First term, each year.  
Prerequisite(s): EGM 303.

CEE 317 ANALYSIS OF STRUCTURES II 3
Elastic analysis of structures; virtual work; Castigliano's theorems; slope deflection and moment distribution; computer analysis of structural systems, influence lines, column analogy, limit analysis. Second term, each year.  
Prerequisite(s): CEE 316.

CEE 318 ANALYSIS OF STRUCTURES 4
Modern and traditional methods for analyzing truss, beam, and frame structures. Modern matrix and computer methods emphasized to prepare students to solve comprehensive civil engineering structures. Topics include: element stiffness matrices and load vectors, assembly of global stiffness matrices and load vectors, construction of structural models, interpretation of computer results. Traditional hand-solution methods emphasized also to provide students with reliable methods for verifying the accuracy of
computer model predictions. Topics include: shear and bending moment diagrams, influence lines, virtual work, slope deflection, moment distribution.  

**Prerequisite(s):** EGM 303.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 320</td>
<td>CIVIL ENGINEERING ANALYSIS</td>
<td>3</td>
<td>Mathematical modeling and numerical solution of civil engineering problems: basic concepts of probability and statistics with emphasis on applications to structures, transportation, and hydraulics problems; application of numerical computational methods in civil engineering problems. First term, each year <strong>Prerequisite(s):</strong> EGM 202, 303. <strong>Corequisite(s):</strong> CEE 320L; MTH 219.</td>
</tr>
<tr>
<td>CEE 333</td>
<td>WATER RESOURCES ENGINEERING</td>
<td>3</td>
<td>Integrated study of the principles of water movement and management. Focus areas include hydrology, water distribution, waste water collection and storm water management. Second term, each year <strong>Prerequisite(s):</strong> CEE 313, 313L, 320, 320L.</td>
</tr>
<tr>
<td>CEE 390</td>
<td>ENVIRONMENTAL POLLUTION CONTROL</td>
<td>3</td>
<td>Study of environmental pollution problems relating to air, water, and land resources. Causes and effects of pollution technology for solving problems. Legal and political considerations. For juniors and seniors other than civil engineering students. Credit may not be applied toward civil engineering degree. <strong>Prerequisite(s):</strong> Some knowledge of chemistry.</td>
</tr>
<tr>
<td>CEE 398</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1-6</td>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
</tr>
<tr>
<td>CEE 403</td>
<td>TRANSPORTATION ENGINEERING</td>
<td>3</td>
<td>Fundamentals of transportation engineering, including design, construction, maintenance, and economics of transportation facilities. Design of pavement structures and drainage systems <strong>Prerequisite(s):</strong> CEE 310L, 333. <strong>Corequisite(s):</strong> CEE 420.</td>
</tr>
<tr>
<td>CEE 408</td>
<td>SEMINAR</td>
<td>0</td>
<td>Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required of all civil engineering sophomores, juniors, and seniors.</td>
</tr>
<tr>
<td>CEE 411</td>
<td>DESIGN OF STEEL STRUCTURES</td>
<td>3</td>
<td>Design and behavior of structural steel connections, columns, beams, and beams subjected to tension, compression, bending, shear, torsion, and composite action <strong>Prerequisite(s):</strong> CEE 310L; 317 or 318.</td>
</tr>
<tr>
<td>CEE 412</td>
<td>DESIGN OF CONCRETE STRUCTURES</td>
<td>3</td>
<td>Design and behavior of reinforced concrete slabs, beams, columns, walls, and footings subjected to tension, compression, bending, shear, and torsion <strong>Prerequisite(s):</strong> CEE 310L; 317 or 318.</td>
</tr>
<tr>
<td>CEE 420</td>
<td>ENGINEERING ECONOMICS</td>
<td>1</td>
<td>Basic principles and techniques of economic analysis of engineering projects <strong>Corequisite(s):</strong> CEE 403.</td>
</tr>
</tbody>
</table>
CEE 421 CONSTRUCTION ENGINEERING
Organization, planning, and control of construction projects, including a study of the use of machinery, economics of equipment, methods, materials, estimates, cost controls, and fundamentals of CPM and PERT contracts and bonds and legal aspects of contracting. Departmental elective
Corequisite(s): CEE 403 or permission of department chairperson.

CEE 422 DESIGN AND CONSTRUCTION PROJECT MANAGEMENT
Fundamentals of project management as they relate to the design and construction professional, and the application of project management techniques to the design and construction of major projects. Departmental elective.
Prerequisite(s): CEE 421.

CEE 434 WATER & WASTEWATER ENGINEERING
Problems of water pollution; development and design of public water supply and waste water disposal systems; legal, political, ethical, and moral considerations. First term, each year
Prerequisite(s): (CEE 313, 313L; CHM 124) or permission of instructor.
Corequisite(s): CEE 434L.

CEE 434L WATER & WASTEWATER ENGINEERING LABORATORY
Laboratory exercises, demonstrations, and design problems associated with water and wastewater engineering
Corequisite(s): CEE 434.

CEE 450 CIVIL ENGINEERING DESIGN
Group design of complete projects, drawing on the knowledge acquired in a spectrum of civil engineering subjects
Prerequisite(s): CEE 312, 312L, 333, 403, 411, 412, 434, 434L.

CEE 463 HAZARDOUS WASTE ENGINEERING
The fundamental principles of the design and operation of hazardous waste remediation processes. Characterizing contaminated sites and conducting treatability studies for the selection of the most appropriate remediation strategy.

CEE 470 CEE COMPUTER APPLICATIONS
Innovative solutions to common civil engineering problems in environmental, geotechnical structures transportation and water resources through the use of personal computer applications
Prerequisite(s): CEE 320.

CEE 498 RESEARCH AND INNOVATION LABORATORY
1-6
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

CEE 499 SPECIAL PROBLEMS IN CIVIL ENGINEERING
1-6
Particular assignments to be arranged and approved by chairperson of the department. Departmental elective
College of Arts and Sciences  
(CMM) Communication  
(Collapse Description)

The course requirements for communication majors are 39 semester hours. Teacher licensure through the E11A program is an option for communication majors. Consult department chairperson for details.

A minor in communication consists of fifteen semester hours.

A minor in political journalism is available for political science majors. The political journalism minor consists of eighteen semester hours.

The department also offers a Bachelor of Arts with a major in theatre. See THR.

Faculty

Kathleen B. Watters, Chairperson
Professors Emeriti: Blatt, Gilvary, Harwood, Mortan, Rang, Wolff
Professors: Cusella, Lain, Robinson, Skill, Thompson
Associate Professors: Anderson, Griffin, Kenny, Wallace, Watters, Yoder
Assistant Professors: Dunlevy, Langhorne, Scantlin, Taylor, Vorvoreanu
Media Executive in Residence: Walters
Lecturers: Angel, Flynn, Juniewicz, Warthman

Majors/Minors  
(Collapse All)

Bachelor of Arts with a major in Communication Management (CMT)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Management¹</td>
<td>39</td>
</tr>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 320, 321, 330, 412, 421</td>
<td>24</td>
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<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>CMM 322, 351, 352, 413, 420, 498</td>
<td></td>
</tr>
<tr>
<td>Select courses in CMM or THR²</td>
<td>9</td>
</tr>
<tr>
<td>Select twelve additional semester hours in a single academic discipline selected from business, education or the social sciences³</td>
<td>12</td>
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</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

| Communication Competencies (ENG 101-102 or 114 or 198) | 3-6       |
| Introduction to the University: ASI 150              | 0-1       |

General Education courses/academic electives to total at least 124
At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hours.

Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the thirty-nine semester hours requirement.

Beyond the Liberal Studies requirements; six semester hours must be 300- or 400-level.

Bachelor of Arts with a major in Communication Studies (CSS)

<table>
<thead>
<tr>
<th>Communication Studies(^1)</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330</td>
<td>39</td>
</tr>
<tr>
<td>Select courses from CMM or THR(^2,3)</td>
<td>27</td>
</tr>
<tr>
<td>Select twelve additional semester hours in a single academic discipline selected from business, education or the social sciences(^4)</td>
<td>12</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

Communication Competencies (ENG 101-102 or 114 or 198) | 3-6 |
Introduction to the University: ASI 150 | 0-1 |
General Education courses/academic electives to total at least | 124 |

At least 24 of the required 39 semester hours in all communication concentrations must be 300-400 level. No more than 6 total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the 39 semester hours.

Approved program of study by advisor and department chair must be submitted prior to completion of 18 semester hours.

Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the 39 semester hours requirement.

Beyond the Liberal Studies requirements; 6 semester hours must be 300- or 400-level.

Bachelor of Arts with a major in Electronic Media (RTV)

<table>
<thead>
<tr>
<th>Electronic Media(^1)</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330, 340, 343, 397(^2)</td>
<td>19-21</td>
</tr>
<tr>
<td>Select one course from:</td>
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</tr>
<tr>
<td>CMM 341, 342, 344</td>
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</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>CMM 345, 440, 442, 444, 446, 449, 498</td>
<td></td>
</tr>
<tr>
<td>CMS 414</td>
<td></td>
</tr>
<tr>
<td>Select courses in CMM or THR(^3)</td>
<td>9</td>
</tr>
<tr>
<td>Select 12 semester hours in a single academic discipline selected from business, education or the social sciences(^4)</td>
<td>12</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001766&p=-1&c=-1 7/10/2012
History

Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses) 3-9

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies (ENG 101-102 or 114 or 198) 3-6
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1At least 24 of the required 39 semester hours in all communication concentrations must be 300-400 level. No more than 6 total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the 39 semester hours.
2Flyer TV or WDCR.
3Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the 39 semester hours requirement.
4Beyond the Liberal Studies requirements; 6 semester hours must be 300- or 400-level.

Bachelor of Arts with a major in Journalism (JRN)

Sem. Hrs.

Journalism 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330, 331, 430, 431, 432</td>
<td>24</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td></td>
</tr>
<tr>
<td>CMM 332, 333, 412, 416, 439, 498</td>
<td>6</td>
</tr>
<tr>
<td>CMS 414</td>
<td></td>
</tr>
<tr>
<td>Select courses in CMM or THR 2</td>
<td>9</td>
</tr>
<tr>
<td>Select 12 additional semester hours in a single academic discipline</td>
<td>12</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

| Philosophy and Religious Studies | 12        |
| Any courses in CMM or THR 2     | 9         |
| Literature: English or Foreign Language | 3         |
| Creative and Performing Arts     | 3         |
| Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses) | 3-9        |

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies (ENG 101-102 or 114 or 198) 3-6
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hours.
2Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the 39 semester hours requirement.
3Beyond the Liberal Studies requirements; 6 semester hours must be 300- or 400-level.

Bachelor of Arts with a major in Public Relations (PUB)
Public Relations\textsuperscript{1,3} \hspace{1cm} \text{Sem. Hrs.} \\
\text{CMM 110, (111 or 112), 113, 201, 202, 330, 360, 412, 460, 461} \hspace{1cm} 24 \\
Select two courses from: \hspace{1cm} 6 \\
CMM 331, 332, 421, 430, 469, 498 \\
Select courses in CMM or THR\textsuperscript{2} \hspace{1cm} 9 \\
Select twelve additional semester hours in a single academic discipline selected from business, education or the social sciences\textsuperscript{3} \hspace{1cm} 12

Liberal Studies Curriculum

Humanities and Fine Arts

哲学 and Religious Studies \hspace{1cm} 12 \\
History \hspace{1cm} 6 \\
Literature: English or Foreign Language \hspace{1cm} 3 \\
Creative and Performing Arts \hspace{1cm} 3 \\
Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses) \hspace{1cm} 3-9 \\
Social Sciences \hspace{1cm} 12 \\
Mathematics (excludes MTH 102, 204, 205) \hspace{1cm} 3 \\
Natural Sciences \hspace{1cm} 11

Communication Competencies (ENG 101-102 or 114 or 198) \hspace{1cm} 3-6 \\
Introduction to the University: ASI 150 \hspace{1cm} 0-1 \\
General Education courses/academic electives to total at least \hspace{1cm} 124

\textsuperscript{1}At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hours.

\textsuperscript{2}Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the thirty-nine semester hours requirement.

\textsuperscript{3}Beyond the Liberal Studies requirements; six semester hours must be 300- or 400-level.

Bachelor of Arts with a major in Theatre (CTR)

Sem. Hrs.

Theatre\textsuperscript{1} \\
\text{CMM 110, (111 or 112), 113, 201, 202, 330} \hspace{1cm} 12 \\
THR 203, 310, 340, 415 \hspace{1cm} 12 \\
Select two courses from: \hspace{1cm} 6 \\
THR 305, 307, 323, 325, 326, 330, 424 \\
Select courses in CMM or THR\textsuperscript{2} \hspace{1cm} 9 \\
Select twelve additional semester hours in a single academic discipline selected from business, education or the social sciences\textsuperscript{3} \hspace{1cm} 12

Liberal Studies Curriculum

Social Sciences \hspace{1cm} 12 \\
Humanities and Fine Arts

哲学 and Religious Studies \hspace{1cm} 12 \\
History \hspace{1cm} 6 \\
Literature: English or Foreign Language \hspace{1cm} 3 \\
Creative and Performing Arts \hspace{1cm} 3 \\
Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses) \hspace{1cm} 3-9 \\
Mathematics (excludes MTH 102, 204, 205) \hspace{1cm} 3 \\
Natural Sciences \hspace{1cm} 11
Communication Competencies (ENG 101-102 or 114 or 198) 3-6
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hours.
2Dance courses in the theatre program (THR 201, 251, 271, 301, 351, 361, 371) do not count toward the thirty-nine semester hours requirement.
3Beyond the Liberal Studies requirements; six semester hours must be 300- or 400-level.

Minor in Communication (CMM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>3</td>
</tr>
<tr>
<td>Select twelve additional semester hours (300- or 400-level)</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

In consultation with the chairperson.

Minor in Political Journalism

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 201, 330</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select four courses from:</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>CMM 331, 354, 355, 431, 432</td>
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</tbody>
</table>

Available only to political science majors.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>1</td>
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</tbody>
</table>
Communication processes for small decision-making groups. Focus is on the development of general competencies in leadership, group roles, conflict management, agenda setting, problem analysis and research, decision making and critical thinking.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 111</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
<td>1</td>
</tr>
</tbody>
</table>
Communication processes for presenting information in a public speaking context. Focus is on the development of general competencies in development and organization of ideas, research, adaptation to an audience, use of PowerPoint, and delivery.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 112</td>
<td>PERSUASIVE PUBLIC SPEAKING</td>
<td>1</td>
</tr>
</tbody>
</table>
Communication processes for persuading listeners in a public speaking context. Focus is on the development of general competencies in the construction and organization of persuasive strategies, critical evaluation of arguments and evidence, research, adaptation to an audience, use of PowerPoint, and delivery.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 113</td>
<td>INTERVIEWING</td>
<td>1</td>
</tr>
</tbody>
</table>
Communication processes for information gathering and employment interviewing. Focus is on the development of general competencies in the conduct and organization of interviews, preparation of resumes, evaluation of questions and responses, research, listening, and nonverbal communication.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 201</td>
<td>FOUNDATIONS OF MASS COMMUNICATION</td>
<td>3</td>
</tr>
</tbody>
</table>
Historical development of mass media in America; survey of mass media theories, impact of mass media on people and society, the role and influence of the news media, new technologies, programming, and pressure groups.
CMM 202 FOUNDATIONS OF COMMUNICATION THEORIES AND RESEARCH
Study of the nature and scope of communication theories and research. Examination of how the communication discipline developed from classical traditions to its modern perspective.

CMM 310 VOICE AND DICTION
The four phases of speech production: proper breathing, phonation, resonance, and articulation. Emphasis on projection, quality and clarity of speech. Analysis of students' voices through tape recordings.

CMM 311 STUDIES IN ORAL PERFORMANCE
Oral performance of poetry, prose, and drama; combining study of vocal modulations, pitch, inflection, and tone color with intellectual and emotional analysis of selections as a means of making the literature alive and immediately present.

CMM 312 LISTENING THEORY AND APPLICATION
Study of theories and related application during comprehensive, discriminate, empathic, and appreciative listening; emphasis on listening competently and responsibly.

CMM 313 NONVERBAL COMMUNICATION
Survey of theory and research in nonverbal behavior. Examination of the influence of environmental factors, physical behavior, and vocal cues on human communication.

CMM 314 DIMENSIONS OF BRITISH COMMUNICATION
Exploration of mass media, public relations, interpersonal communication, political communication, theatre and other communication subfields in the British context. This course will be offered only through a UD study abroad program.

CMM 315 INTERNATIONAL MASS MEDIA
Focus on the mass media of a particular foreign country or region of the world. Topics may include media content, use, societal effects and ownership.

CMM 320 INTERPERSONAL COMMUNICATION
Study of communication behavior in a variety of dyadic relationships including acquaintance, friendship, work, romantic, and family. Focus on communicative behavior and communicative processes in relationship development including building trust, managing conflict, negotiating power, and listening empathetically.

CMM 321 SMALL GROUP COMMUNICATION
Examination of theory and research related to communicative processes in small, task-oriented groups. Applications include a focus upon decision-making strategies, leadership, conflict management, and cohesion.

CMM 322 INTERVIEWING FOR COMMUNICATION AND BUSINESS
Analysis of communication in structured dyadic interaction. Emphasis on the following types of interviews: information-gathering, employment, appraisal, and persuasive. Application through role-playing and feedback systems.

CMM 330 MEDIA WRITING
Developing and practicing writing skills for journalism, public relations, and electronic media. Study and practice of ethics in determining news values, gathering information, and communicating clearly and accurately for mass audiences. AP style emphasized. Studio Fee.

CMM 331 FEATURE WRITING
Developing and writing nonfiction stories for newspapers and magazines. Story types include personality profile, color, background, consumer, and commentary. Study and practice in journalistic reporting skills and literary writing techniques. Emphasis on content, organization, style, and accuracy. Strong command of AP style necessary. Studio Fee. 
Prerequisite(s): CMM 330.

CMM 332 PUBLICATION DESIGN
Layout and design of print and electronic publications, including newsletters, brochures, and web-based publications. Instruction in desktop and web publishing software, use of type and illustration, cost appraisal, printing methods. Studio Fee.

CMM 333 FREE-LANCE WRITING
Steps of free-lance publication, from market analysis to query letters to writing and rewriting. Mostly nonfiction, magazine markets, some newspaper and nonfiction book markets.

CMM 334 SPORTSWRITING
In addition to game stories, attention is also paid to writing about personalities, legal issues, and financial issues on the interscholastic, intercollegiate, amateur, and professional levels. Strong writing skills and knowledge of journalistic style expected. **Prerequisite(s):** CMM 330.

CMM 340 FUNDAMENTALS OF BROADCASTING
Survey of broadcasting, with emphasis on television and radio networks, programming, regulation, audience measurement, audience effects, and technology. Although attention is given both to the origins and future of the field, contemporary broadcasting is emphasized.

CMM 341 AUDIO PRODUCTION
Study of the theories, processes, and technologies of audio production practices that can be applied in radio, television, and multimedia production. Exercises in recording of voice, music, and special effects. Course includes the operation of basic studio and field equipment, including analog and basic digital recording and editing. Studio Fee.

CMM 342 FUNDAMENTALS OF VIDEO PRODUCTION
Explores the techniques of studio and remote video production. Includes the technical and creative aspects of planning and script preparation, producing, directing, technical directing, graphics, editing, camera, lighting, and sound for a variety of video programs. Studio Fee.

CMM 343 SCRIPTWRITING FOR ELECTRONIC MEDIA
Study of concrete approaches to and practice with the kinds of writing being done professionally in all program types on television and radio including corporate media writing. **Prerequisite(s):** CMM 330 or permission of instructor.

CMM 344 MULTIMEDIA DESIGN AND PRODUCTION I
Introduction to producing in the interactive media of CD-ROM and other digital formats. Reviews basic object-linking-and-embedding in familiar computer programs such as Word, PowerPoint, and Freelance Graphics. Students build skills in multimedia authoring, using all the fundamental tools of graphics, text, audio, and video. Studio Fee.

CMM 345 CLASSIC AMERICAN FILM
A survey of the artistic evolution of American film, including the analysis of styles of producing, scripting, acting, directing, lighting, sound, cinematography, set design and editing through viewing of classic American films and selected international films that have influenced the art of American filmmaking.

CMM 350 PROPAGANDA ANALYSIS
Examination of major propaganda campaigns in history beginning with Greek democracy. Emphasis on 20th century propaganda as psychological warfare. Principles of Aristotelian rhetorical theory applied to propaganda analysis.

CMM 351 PUBLIC SPEAKING
Oral communication in professional situations. Adaptation of principles of effective speaking to specific audiences and occasions. Delivery of informational, problem-solving, and special-occasion speeches.

CMM 352 PERSUASION
Study of the use of communication to form attitudes. Examination of attitudes and social influence and their effects on human behavior. Topics
include selected theories of persuasion, argument construction, and practical application.

**CMM 353 SPEECH WRITING**
Study of speech structure and composition. Critical analysis of model speech, in conjunction with the preparation and presentation of original speeches on current public questions.

**CMM 354 POLITICAL CAMPAIGN COMMUNICATION**
Examination of theory and research on the role, processes and effects of communication in political campaigns with emphasis on mass media, public speaking, debates, advertising, and interpersonal communications.

**CMM 355 RHETORIC OF SOCIAL MOVEMENTS**
Study of rhetorical communication in American social movements through examination of the strategies, themes and tactics used by agitators and the institutional responses to discourse aimed at social change.

**CMM 360 PRINCIPLES OF PUBLIC RELATIONS**
Survey of the field of public relations emphasizing writing and public relations, theoretical implications of the field, the practitioner's role in organization and the community.

**CMM 390 INDEPENDENT STUDY**
Supervised study involving directed readings, individual research (library, field, or experimental), or projects in the specialized areas of communication. May be repeated for up to 6 semester hours.

**Prerequisite(s):** Permission of department chairperson.

**CMM 397 COMMUNICATION PRACTICUM**
Contracted participation in an approved on-campus communication organization. One sem. hr. per term to a maximum of 3. Grade option 2 only.

**CMM 410 FAMILY COMMUNICATION**
Study of the family from a communication perspective, considering the communication processes within the family and the extent to which communication affects and is affected by the family.

**CMM 411 HEALTH COMMUNICATION**
Examination of communication theory and research as they relate to health care. Issues include reassurance, the role of the patient, interviews, health organizations, the media and health, compliance, providing explanations, and health care professions frequently neglected.

**CMM 412 STATISTICAL METHODS IN COMMUNICATION**
Study of data gathering methods in communication. Practice in sampling, survey methods, questionnaire development, and experimental design. Emphasis on the use of logic to interpret data and to support claims.

**CMM 413 COMMUNICATION IN THE INFORMATION AGE**
Examination of issues related to development, economics, programming, and the future of new mass communication technologies.

**Prerequisite(s):** CMM 201 or permission of instructor.

**CMM 416 DEVELOPMENT OF MASS MEDIA**
History and analysis of the development and interdependence of mass media, print and electronic. Emphasis on its role in political and economic progress of U.S. and attendant responsibility.

**CMM 420 COMMUNICATION AND CONFLICT MANAGEMENT**
Examination of the functions of communication in interpersonal conflict such as marital conflict, role conflict, and organizational conflict. Communicative strategies and tactics for managing conflict.

**CMM 421 COMMUNICATION IN ORGANIZATIONS**
Analysis of message initiation, diffusion, and reception in organizations; analysis of the role of communication in developing productive work relationships, management practices, and organizational cultures.

**CMM 430 COPYEDITING**
Editing, particularly news copy editing and headline writing. Emphasis on clear and concise wording; proper spelling, grammar, and punctuation; and accuracy. Strong command of AP style necessary. Studio Fee.

Prerequisite(s): CMM 330.

CMM 431   PUBLIC AFFAIRS REPORTING
Investigative and specialized reporting on matters of public concern. Practice in gathering information from primary and secondary sources, and writing about complex subjects for mass audiences. Studio Fee.
Prerequisite(s): CMM 330.

CMM 432   THE LAW AND NEWS MEDIA
Exploration of the free press clause of the First Amendment, as defined by the courts and media practice. Study of First Amendment core values and theories. Investigation into law on libel, privacy, censorship, access to information, and copyright, as well as regulation of broadcast, cable and new electronic media.
Prerequisite(s): Junior standing.

CMM 439   SPECIAL TOPICS IN JOURNALISM
Concentrated study in special areas of journalism. May be repeated with change of topic.

CMM 440   BROADCAST NEWS
Study of the process and practice of news gathering and writing for radio and television. Course includes research, analysis, writing, and editing news and features, as well as legal, and ethical concerns of broadcast news.
Prerequisite(s): CMM 330.

CMM 442   ADVANCED TELEVISION PRODUCTION
Advanced techniques of both studio and electronic field production and post-production editing for television.
Prerequisite(s): CMM 342.

CMM 444   MULTIMEDIA DESIGN AND PRODUCTION II
Advanced level multimedia production emphasizing client-based project generation through a design/production-team approach. Focus is on interface design; project planning, script writing, storyboard; digital image, sound and video editing; and the use of authoring software.
Prerequisite(s): CMM 344.

CMM 446   ELECTRONIC MEDIA MANAGEMENT
Survey of the leadership/management roles and responsibilities of broadcasting, cable television and corporate media enterprises.
Prerequisite(s): CMM 340.

CMM 449   TOPICS IN ELECTRONIC MEDIA
Concentrated study in special areas of electronic media production, criticism, and management. May be repeated once with change of topic. Depending on topic, prerequisites may be imposed.

CMM 452   PUBLIC DISCOURSE AND CRITICISM
Examination of the foundations of the field of communication. Major focus on the development of rhetorical theory with attention to rhetorical analysis and criticism.

CMM 460   PUBLIC RELATIONS WRITING
Study, development and application of public relations strategies. Emphasis on strategically effective, factually accurate and grammatically sound written communications for organizational and mass audiences.
Prerequisite(s): CMM 330, 390.

CMM 461   PUBLIC RELATIONS CAMPAIGNS
Students plan and carry out a public relations program for an established professional organization, work out solutions to communication and public relations problems, and prepare written campaign materials and handbooks.
Prerequisite(s): CMM 330, 360, 460, and senior standing.

CMM 469   TOPICS IN PUBLIC RELATIONS
A concentrated study in specific areas of public relations. Development of specialized projects. May be repeated once with change of topics.

**Prerequisite(s):** CMM 360 or permission of instructor

**CMM 477** HONORS THESIS PROJECT

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**CMM 478** HONORS THESIS PROJECT

Second of two courses leading to the selection, design, investigation and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**CMM 498** COMMUNICATION INTERNSHIP

Communication work experience in an approved organization. Prerequisites:

Student must be in good academic standing and must have completed CMM 110, 111 or 112, 113, 201, 202, 330. Students are normally limited to a maximum of 3 sem. hrs. Under exceptional circumstances, students may petition the department chair for an additional 3 sem. hrs., if the second internship is at a different organization and the student can demonstrate that the position offers a unique and significant educational opportunity not available through the first internship. Permission of department chair. Option 2 Grading only.

**Prerequisite(s):** Permission of department chairperson.

**CMM 499** SPECIAL TOPICS IN COMMUNICATION

Concentrated study in specific areas of speech communication. May be repeated once with change of topic.

**CMS 316** INTERCULTURAL COMMUNICATION

Study of interpersonal communication with emphasis on people from different countries and with different cultural backgrounds. Focus on the influence of culture on communication and language, verbal and non-verbal communication similarities and differences from culture to culture, and challenges of successful intercultural communication.

**CMS 414** GLOBAL COMMUNICATION

Introduction to the main topics in the field of global communication. Emphasis on comparative mass media and current issues in global communication. (Will not satisfy humanities requirement.)

**CMS 415** WOMEN AND COMMUNICATION

Seminar focusing on gender differences in communication, unique aspects to women's communication, and women's rhetoric. Current theory and research examined. (Will not satisfy humanities requirement.)
The Department of Computer Science offers two programs leading to the Bachelor of Science in computer science, and in computer information systems. Both programs have the same introductory core sequence of computer science courses. The main differences in the programs are in the mathematics and science requirements and in the application emphases.

Computer information systems: This program emphasizes computer science concepts with particular attention to systems analysis and design, computer communications, and applications in one of the concentration areas listed in the description of the program requirements.

Computer science: Computer science is the study of algorithms and their implementation in the environment of computer hardware. It includes the study of data structures, software design, programming languages, and computer elements and architecture. A student entering this program is expected to be able to take calculus and non-remedial English. A transfer student must ordinarily be in good standing and have a cumulative average of at least 2.5 based on a scale of 4. Each student must take appropriate upper-level electives to ensure depth in at least three of the core subject areas of data structures, software design, programming language concepts and architecture as arranged with the advisor and department chair.

Computer science and computer information systems majors are required to attain grades of C- or better in CPS 150, 151 and 350.

A minor in computer science consists of twenty-four semester hours. A minor in computer information systems consists of twenty-three semester hours.

Faculty
James P. Buckley, Chairperson
Professors Emeriti: Kester, Winslow
Associate Professors: Buckley, Gowda, Lang, Schoen, Smith, Sritharan
Assistant Professors: Courte, Perugini, Seitzer, Tran
Lecturers: Reynolds, Starkey
Adjunct Associate Professor: Lokai

Majors/Minors

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Bachelor of Science with a major in Computer Information Systems (CIS)</td>
<td>42</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td>30</td>
</tr>
<tr>
<td>CPS 150, 151, 242, 250, 310, 312, 341, 346, 350</td>
<td>12</td>
</tr>
<tr>
<td>Select four additional courses (320-level or above)</td>
<td>15-27</td>
</tr>
<tr>
<td><strong>Concentration:</strong> An approved minor, or the following courses:</td>
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</tr>
<tr>
<td>ACC 207, 208</td>
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<tr>
<td>ECO 203, 204</td>
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<tr>
<td>MGT 301</td>
<td></td>
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<tr>
<td>MKT (300 or 301)</td>
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<tr>
<td><strong>Breadth Requirement</strong></td>
<td>41-50</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>MTH 148, 149, 367</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>9</td>
</tr>
</tbody>
</table>
Philosophy and Religious Studies (includes PHL 319) 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

1This requirement will be satisfied in some cases by the minor that is chosen.
2Approved minors include: anthropology, biology, chemistry, communication, criminal justice, economics, English, family development, geology, history, human rights, languages, mathematics, music, philosophy, physics, political science, psychology, social work, sociology, religious studies, women's studies, accounting, finance, international business, management, marketing, e-business and entrepreneurship.

Bachelor of Science with a major in Computer Science (CPS)

Natural Sciences

Sem. Hrs.
8

Breadth Requirement

Natural Sciences (select one grouping of courses from the following):

BIO 151-151L, 152-152L
CHM 123-123L, 124-124L
GEO 115-115L, 116-116L
PHY 206, 207, 210L, 211L

Select two additional courses acceptable for Science or Engineering majors

Mathematics

MTH 168, 169, 218, 302, 367

Social and Behavioral Sciences

6

Humanities

9

Philosophy and Religious Studies (including PHL 319)

12

Communication Competencies 0-9

Humanities

9

Philosophy and Religious Studies (including PHL 319)

12

Minor in Computer Information Systems (CIS)

Sem. Hrs.
23

Computer Information Systems

CPS 150, 151, 242, 310, 312

Select two additional courses (320-level or above, excludes CPS 435 & 437)

6

Minor in Computer Science (CPS)

Sem. Hrs.
24

Computer Science

CPS 150, 151, 250, 350

Select three additional courses (320-level or above, excludes CPS 435 & 437)

9

Courses (Collapse All Courses)

Code Title Sem. Hrs.
CPS 107 COMPUTERS AND SOCIETY 3

Non-technical introductory survey of the history and organization of digital computers; the diverse application of computers in government, business, education, and the arts; and the psychological and sociological impact of the computer age. Not open to CPS, CIS, or PCS majors.

CPS 111 INTRODUCTION TO PERSONAL COMPUTERS 3

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001767&p=-1&c=-1 7/10/2012
Emphasis on use of operating system, particularly file organization, and applications: word processor, spreadsheet, database and presentation software.

CPS 130  INTRODUCTION TO ENGINEERING PROGRAMMING
Introduction to fundamentals of programming using the language C, including algorithms and control structures, with applications drawn from engineering. Intended for students in electrical engineering.
Prerequisite(s): EGR 101.

CPS 132  COMPUTER PROGRAMMING FOR ENGINEERING AND SCIENCE
Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Calculus-based computer solutions of problems from science and engineering using C.
Corequisite(s): MTH 168.

CPS 144  INTRODUCTION TO COMPUTER PROGRAMMING
Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Computer solutions of problems from social sciences using a suitable compiler language such as Visual Basic.

CPS 150  ALGORITHMS AND PROGRAMMING I

CPS 151  ALGORITHMS AND PROGRAMMING II
Continuation of CPS 150. Emphasis on program design, development and style, string processing, data structures, program modularity, and abstract data type, using a compiler language.
Prerequisite(s): CPS 150.

CPS 225  PROGRAMING FOR BUSINESS SYSTEMS
Process of software development for business system implementation. Fundamental programming concepts including program design, documentation, development and testing of computer solutions of business problems using C++. Intended for students majoring in MIS.
Prerequisite(s): MIS 175.

CPS 242  INTRODUCTION TO FILE PROCESSING
The file processing environment, blocking and buffering, secondary storage devices, sequential file organization, relative file organization, and various indexed file organizations using a suitable compiler language such as COBOL.
Prerequisite(s): CPS 151.

CPS 250  ALGORITHMS AND PROGRAMMING III
Study of computer organization and architecture by developing basic programming skills in an assembler language (currently IBM Mainframe) and in C.
Prerequisite(s): CPS 151.

CPS 309  TOPICS IN COMPUTER SCIENCE
Lectures or laboratory work in areas of current interest. May be taken more than once. Does not count as upper level credit for major/minors.

CPS 310  SYSTEMS ANALYSIS
Methodologies for producing software, software development life cycles, top-down approach, data flow diagram, data dictionary, mini-specifications, input/output design, E-R diagrams, normalization, introduction to object oriented analysis.
Prerequisite(s): CPS 151 or CPS 225.

CPS 312  SYSTEMS DESIGN
Structured design, tools of structured design, coupling and cohesion of modules, transform and transaction analyses, packaging, optimization, data-
oriented and object oriented design methodologies, automated design tools.  
**Prerequisite(s):** CPS 310.

**CPS 341 DISCRETE STRUCTURES**  
Logic and proofs, sets and counting, Boolean algebra, graph theory, directed graphs, mathematical machines, formal languages and grammars.  
**Prerequisite(s):** CPS 150.

**CPS 343 COMPARATIVE LANGUAGES**  
Language design issues, formal syntax specification, data types and storage methods, activation records and procedural object oriented, functional, and logic programming paradigms.  
**Prerequisite(s):** CPS 350.

**CPS 346 OPERATING SYSTEMS I**  
Semaphores, conditions, monitors, and kernels. Concurrent programming, interrupts, memory, and process management. Design and implementation of multithreaded and distributed system components using concurrent languages.  
**Prerequisite(s):** CPS 250, 350.

**CPS 350 DATA STRUCTURES AND ALGORITHMS**  
Advanced concepts of linear data structures, stacks, queues, and abstract data types. Basic and advanced concepts of trees, graphs, hash tables, heaps, algorithm design and analysis techniques.  
**Prerequisite(s):** CPS 250.

**CPS 353 NUMERICAL METHODS I**  
Study of the algorithms of numerical mathematics with emphasis on interpolation, the solution of nonlinear equations, and linear systems of equations including matrix methods; analysis of errors associated with the algorithms.  
**Prerequisite(s):** (CPS 132 or 150); MTH 169.

**CPS 354 NUMERICAL METHODS II**  
Study of the algorithms of numerical mathematics with emphasis on functional approximation, numerical differentiation and integration, numerical solution of ordinary differential equations and boundary value problems; analysis of errors associated with the algorithms.  
**Prerequisite(s):** CPS 353.

**CPS 387 COMPUTER SYSTEM DESIGN I**  
Study of the elements of computer design. Design of combinatorial and sequential logic circuits using current integrated circuit devices. Discussion of encoders, decoders, registers, counters, etc. as applied to design and use of control, arithmetic, logic, and storage units. Instruction set, addressing modes and CPU design. Laboratory experiments with these devices.  
**Prerequisite(s):** CPS 250, 341.

**CPS 388 COMPUTER SYSTEM DESIGN II**  
Detailed analysis of a specific microcomputer programmed in machine, assembler, and a higher-level language. Discussion of interfacing with devices such as displays, terminals, and other computers. Experiments with such interfacing in the laboratory.  
**Prerequisite(s):** CPS 387.

**CPS 411 MANAGEMENT INFORMATION SYSTEMS**  
The management information systems environment. The theory, technology, development of information systems. Emphasis on integration of information systems for decision support and other management information requirements.  
**Prerequisite(s):** CPS 310.

**CPS 415 SOFTWARE TESTING**  
A detailed examination of the software testing process and its role in the software lifecycle. Topics include functional testing, structural testing, methods for designing, generating and evaluating test data, coverage hierarchies, theoretical and practical limitations of testing, testability measures, regression testing, and specialized testing such as methods for testing object oriented software, graphical user interfaces.  
**Prerequisite(s):** (CPS 310 or 418); CPS 341, 350.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPS 418</td>
<td>SOFTWARE ENGINEERING</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>A thorough examination of modern software methodologies, of the managerial and technological skills essential to the design and construction of high-quality software, and of the productivity and human factors in software development.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> CPS 350.</td>
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<tr>
<td>CPS 420</td>
<td>OBJECT ORIENTED SYSTEMS DEVELOPMENT</td>
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<td></td>
<td>An overview of object-oriented analysis and design methodologies and Unified Modeling Language (UML), Use Case Model, Logical Model, Component Model, Deployment Model and Design Patterns. The course will involve a team project using a state of the art Computer Aided Software engineering (CASE) tool.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> CPS 310, 350.</td>
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<tr>
<td>CPS 422</td>
<td>SOFTWARE PROJECT MANAGEMENT</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>An overview of software project management tasks, software development methodologies, project planning techniques, algorithmic cost estimation models, Function Point Estimation, risk management, prototyping, management of software reuse, software maintenance, quality assurance, configuration management, Capability Maturity Model (CMM), and evaluation of CASE tools.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> CPS 310 or 418.</td>
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<tr>
<td>CPS 424</td>
<td>DISCRETE EVENT SIMULATION TECHNIQUES</td>
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<td></td>
<td>Design and use of simulation models; study and use of special-purpose simulation languages such as GPSS and GASP IV, SIMSCRIPT II.5. Applications.</td>
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<td><strong>Prerequisite(s):</strong> CPS 151.</td>
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<tr>
<td>CPS 430</td>
<td>DATABASE MANAGEMENT SYSTEMS</td>
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<td>3</td>
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<tr>
<td></td>
<td>Physical and logical organization of databases: the entity-relationship model; relational database model; the data definition and data manipulation language of a commercial database management system; integrity constraints; conceptual database design.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> CPS 350.</td>
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<tr>
<td>CPS 432</td>
<td>DATABASE MANAGEMENT SYSTEMS II</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Study of query execution and optimization, transaction management, concurrency control, recovery and security techniques. Advanced data models and emerging trends in database systems, like object oriented database systems, distributed database systems, the client-server architecture, multidatabase and heterogeneous systems. Other current database topics and emerging technologies will be discussed.</td>
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<td><strong>Prerequisite(s):</strong> CPS 430.</td>
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<tr>
<td>CPS 437</td>
<td>SYSTEM ARCHITECTURES AND NETWORKING</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Issues and techniques used in the physical design of computer-based information systems. Basic operating systems, hardware architecture and networking principles. Intended for students majoring in MIS; not open to students majoring in CPS, CIS, or PCS.</td>
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<td><strong>Prerequisite(s):</strong> MIS 380, 385.</td>
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<tr>
<td>CPS 444</td>
<td>SYSTEMS PROGRAMMING I</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Analysis of compilers and their construction; programming techniques discussed in the current literature; advanced computer applications in mathematical and nonnumeric areas.</td>
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<td><strong>Prerequisite(s):</strong> CPS 346, 350.</td>
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<tr>
<td>CPS 445</td>
<td>SYSTEMS PROGRAMMING II</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>A continuation of CPS 444, with emphasis on the application of the topics discussed.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> CPS 444.</td>
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<tr>
<td>CPS 446</td>
<td>OPERATING SYSTEMS II</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Design and implementation of a multi-user operating system, including concurrent processes, usage of monitors and kernels, process and device scheduling, virtual memory with paging, process synchronization and communication, input and output spooler, file systems, reliability and</td>
<td></td>
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</tr>
</tbody>
</table>
protection, interrupts, distributed system concepts.  
**Prerequisite(s):** CPS 346.

**CPS 455 NUMERICAL ANALYSIS I**  
Error analysis, mathematical development of functional approximation including interpolation, quadrature, numerical differentiation, solution of ordinary differential equations.  
**Prerequisite(s):** CPS 353.

**CPS 456 NUMERICAL ANALYSIS II**  
Mathematical development of the method of least squares, minimax approximation, solution of partial differential equations, applications.  
**Prerequisite(s):** CPS 455.

**CPS 460 COMPUTER GRAPHICS**  
Introduction to graphics devices and software graphic primitives (points, lines, characters), two-dimensional transformations, clipping, survey of display devices and methods. Graphic input devices, representation of curves and surface in space.  
**Prerequisite(s):** CPS 350.

**CPS 470 DATA COMMUNICATION**  
Principles of telecommunications hardware and software. Analysis of communication protocol layers with respect to performance, error handling, and control functions. Review of troubleshooting techniques currently in use.  
**Prerequisite(s):** CPS 350.

**CPS 472 COMPUTER NETWORKING**  
**Prerequisite(s):** CPS 470.

**CPS 477 HONORS THESIS PROJECT**  
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approval of the University Honors Program.

**CPS 478 HONORS THESIS PROJECT**  
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**CPS 480 ARTIFICIAL INTELLIGENCE**  
Basic concepts and techniques of intelligent systems. Emphasis on representations, problem solving, search strategies, expert systems, mgic systems, and AI programming. Design and implementation of AI applications.  
**Prerequisite(s):** CPS 350.

**CPS 481 ADVANCED ARTIFICIAL INTELLIGENCE**  
An examination of several advanced sub-disciplines of Artificial Intelligence including areas such as speech recognition, planning, machine learning, advanced multiple agent systems and related topics. An exploration of underlying theoretical issues as well as the status of current problems and applications.  
**Prerequisite(s):** CPS 480.

**CPS 482 AUTOMATA THEORY**
Finite automata, sequential machines, survey of formal languages, introduction to computability, recursive functions, and Turing machines.  
**Prerequisite(s):** CPS 341.

**CPS 496  COOPERATIVE EDUCATION  1-3**

Computer science cooperative education work experience in an approved organization. Prerequisite: 12 hours of upper-level CPS courses with a GPA of 3.0; total 90 semester hours with a GPA of 2.75. Permission of the department in advance of the work. Not open to students with credit in CPS 497. Credit does not apply to major requirements. Repeat to a maximum of 3 semester hours.

**CPS 497  INTERNSHIP  1-3**

Computer science work experience in an approved organization. Prerequisite: 12 sem. hrs. of upper-level CPS courses with GPA of 3.0; total 90 sem. hrs. and 2.75 GPA. Permission of department in advance of the work. Not open to students with CPS 496 credit. Credit does not apply to major requirements. Repeat to a maximum of 3 semester hours.

**CPS 498  PROBLEMS IN (NAMED AREA)  1-4**

Individual readings and research in a specialized area. (See CPS 499.) By arrangement. May be taken more than once for additional credit. **Prerequisite(s):** Permission of department chairperson.

**CPS 499  (SPECIAL TOPICS)  1-4**

Lectures or laboratory work in such areas as advanced artificial intelligence, computer architecture, information retrieval, microprogramming, multiprogramming techniques, numerical analysis, graphics, data communications, parallel processing, software development, distributed computing, multimedia computing. By arrangement. May be taken more than once. **Prerequisite(s):** Permission of department chairperson.
College of Arts and Sciences

(CJS) Criminal Justice Studies (Collapse Description)

The Bachelor of Arts with a major in criminal justice studies, is a broadly structured interdisciplinary curriculum designed to introduce students to 1) a critical theory of criminal justice/criminology and 2) requisite knowledge for advanced study or public service, e.g. law enforcement and/or investigative services at the local, state and national levels; line entry careers in the correctional field-probation and parole counseling, community programs, and other rehabilitative services, as well as staff positions in the judiciary.

Those who enter the University of Dayton as first-year students, or as transfers without associate degrees, will be classified under Option A, a total program sequence. Students who transfer here with acceptable associate degrees in specific fields similar or closely related to criminal justice will be classified under Option B, a transfer program sequence.

All students transferring into the curriculum must be in good academic standing and meet entry requirements.

A minor in criminal justice studies consists of eighteen semester hours.

Proficiency examinations for limited CJS credit are available only to majors who are in-service personnel, i.e., law enforcement officers, probation and parole officials, or judicial personnel. Under Option A, students are limited to only 6 semester hours of proficiency examination credit, and under Option B, only 3 semester hours. In-service students should make their formal appeals to the director's office at the beginning of each term, so that it can be determined by the Criminal Justice Studies Advisory Committee whether scheduling a proficiency examination during that term is warranted.

It is the sole responsibility of students to inform themselves of whatever changes occur in the curriculum and to observe all the regulations, procedures, and requirements of the University and the criminal justice studies program.

Faculty

James A. Adamitis, Director

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Criminal Justice Studies (Option A) (CJS)

<table>
<thead>
<tr>
<th>Criminal Justice Studies</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJS 101, 207, 447</td>
<td>9-10</td>
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<tr>
<td>SOC 305</td>
<td>3</td>
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<tr>
<td>Behavior (select two)</td>
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<tr>
<td>PSY 363, 461</td>
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<td>SOC 325, 327, 410</td>
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<td>SWK 325</td>
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<td>Institutions (select two)</td>
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<tr>
<td>CJS 303</td>
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<tr>
<td>POL 303, 305, 360</td>
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<tr>
<td>SOC 323</td>
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<td>SWK 305</td>
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<tr>
<td>Law (select two)</td>
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<tr>
<td>CJS 303, 315</td>
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<tr>
<td>POL 301, 411, 450</td>
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<tr>
<td>SOC 326</td>
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<tr>
<td>Social Structure (select two)</td>
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<tr>
<td>CJS 322, 336</td>
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<tr>
<td>SOC 328, 339, 351</td>
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</tr>
</tbody>
</table>
Liberal Studies Curriculum

Humanities and Fine Arts 6
  Philosophy and Religious Studies 12
  History 6
  Literature: English or Foreign Language 3
  Creative and Performing Arts 3
  Foreign Language and/or Additional Arts and/or Humanities 3-9
  ENG 272, (370 or 378 or 474)

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1 Internships and independent studies may be taken in CJS, POL, PSY, and SOC that have a Criminal Justice Studies emphasis. No more than 6 semester hours may be taken. Also to be offered is CJS 300 Criminal Justice Studies Career Development, CJS 399, Special Topics in Criminal Justice Studies and CJS 497, Service Learning Experience. This course work is in addition to the 36 hours required for a CJS interdisciplinary major in the Option A, total program sequence. They are not to be used as substitute courses for those listed in the areas of behavior, institutions, law and/or social structure, unless approved in advance by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

2 CJS 207, Research Methods in Criminal Justice Studies, requires as a prerequisite MTH 207 or PSY 216 or SOC 308. Neither PSY 216 nor SOC 308 fills the three semester hours mathematics requirement.

Bachelor of Arts with a major in Criminal Justice Studies (Option B) (CJS)

<table>
<thead>
<tr>
<th>Liberal Studies Curriculum</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice Studies 1,2</td>
<td>21</td>
</tr>
<tr>
<td>CJS 207, 447</td>
<td>6</td>
</tr>
<tr>
<td>SOC 305</td>
<td>3</td>
</tr>
<tr>
<td>Behavior (select one)</td>
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<tr>
<td>PSY 363, 461</td>
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<tr>
<td>SOC 325, 327, 410</td>
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<td>SWK 325</td>
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<tr>
<td>Institutions (select one)</td>
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<tr>
<td>CJS 303</td>
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<tr>
<td>POL 303, 305, 360</td>
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<tr>
<td>SOC 323</td>
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<tr>
<td>SWK 305</td>
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<tr>
<td>Law (select one)</td>
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<tr>
<td>CJS 305, 315</td>
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<td>POL 301, 411, 450</td>
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<tr>
<td>SOC 326</td>
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<tr>
<td>Social Structure (select one)</td>
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<tr>
<td>CJS 322, 336</td>
<td></td>
</tr>
<tr>
<td>SOC 328, 339, 351</td>
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</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts
  Philosophy and Religious Studies 12
  History 6
  Literature: English or Foreign Language 3
  Creative and Performing Arts 3
  Foreign Language and/or Additional Arts and/or Humanities 3-9
  ENG 272, (370 or 378 or 474)
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
General Education courses/academic electives to total at least 60

1To be admitted as a major in the program under Option B, a transfer student must have received an accredited associate degree in corrections, law enforcement, police administration, police science, or a similar field of criminal justice and must have a 2.5 cumulative grade-point average on a 4.0 grading system. For criminal justice studies majors who have completed the basic requirements for an accredited two-year criminal justice degree, 60 semester hours beyond the associate degree is suggested, which includes a minimum of 21 semester hours in the program. The Liberal Studies Curriculum is required for all criminal justice studies transfer majors in addition to the baccalaureate degree requirements if they were not included in the candidates' associate degree programs.

2Internships and Independent Studies may be taken in CJS, POL, PSY, and SOC that have a criminal justice studies emphasis. No more than 6 semester hours may be taken. Also to be offered is CJS 300 Criminal Justice Studies Career Development, CJS 399, Special Topics in Criminal Justice Studies and CJS 497, Service Learning Experience. This course work is in addition to the hours required for a CJS interdisciplinary major in the Option B, transfer program sequence. They are not to be used as substitute courses for those listed in the areas of behavior, institutions, law and/or social structure, unless approved in advance by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

3CJS 207, Research Methods in Criminal Justice Studies, required as a prerequisite MTH 207 or PSY 216 or SOC 308. Neither PSY 216 nor SOC 308 fills the three semester hours mathematics requirements.

4To be considered a viable candidate for graduation, a student must have completed a minimum of 124 semester hours with accepted transfer credits.

Minor in Criminal Justice Studies (CJS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CJS 101</td>
<td>INTRODUCTION TO CRIMINAL JUSTICE STUDIES</td>
<td>3-4</td>
</tr>
<tr>
<td>SOC 305</td>
<td>CORS CORRECTIONS</td>
<td>3</td>
</tr>
<tr>
<td>Select twelve additional semester hours (300- or 400-level)</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

1One course from each of the four areas involving behavior, institutions, law, and social structure.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJS 101</td>
<td>INTRODUCTION TO CRIMINAL JUSTICE STUDIES</td>
<td>3 - 4</td>
</tr>
<tr>
<td>CJS 207</td>
<td>RESEARCH METHODS IN CRIMINAL JUSTICE STUDIES</td>
<td>3</td>
</tr>
<tr>
<td>CJS 300</td>
<td>CRIMINAL JUSTICE STUDIES CAREER DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>CJS 303</td>
<td>CORRECTIONS</td>
<td>3</td>
</tr>
</tbody>
</table>
The administration of correctional institutions and other detention facilities with emphasis on probation and parole systems to include the rehabilitation and treatment of the incarcerated with reference to correctional law cases

CJS 305 CRIMINAL LAW
Principles of criminal liability, preparation of case materials, court procedures, and case disposition

CJS 315 CRIMINAL PROCEDURE
Fundamentals of criminal procedure: arrest, search, and seizure; interrogation, Constitutional limitations upon state and federal rules of criminal procedure
Prerequisite(s): A course in criminal law.

CJS 322 POLICING AND SOCIETY
Analyzes the history of policing in society and assesses the social and political forces that are correlated with both the rise of formal policing and the variety of structures law enforcement agencies have assumed. Reviews the primary functions of policing in American society and examines those issues affecting federal, state, county, municipal and private policing

CJS 336 COMPARATIVE CRIMINAL JUSTICE SYSTEMS
Survey of cross-cultural uniformities and diversities in law-enforcement agencies, correctional systems, and the courts in selected countries
Prerequisite(s): An introductory course in criminal justice.

CJS 399 SPECIAL TOPICS IN CRIMINAL JUSTICE
An extensive examination of a current topic affecting the criminal justice system and its law enforcement, corrections or judicial components. May be repeated to a maximum of 3 semester credits when the topic changes

CJS 440 INDEPENDENT STUDY
Directed study and research on selected topics of significant academic publications in law enforcement and criminal justice
Prerequisite(s): An introductory CJS course; permission of instructor.

CJS 447 SENIOR SEMINAR IN CRIMINAL JUSTICE STUDIES
Seminar to identify and discuss the contemporary issues in justice administration. Topics to be assigned by instructor and presented for class discussion by students

CJS 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approval of the University Honors Program.

CJS 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approved 477 and approval of University Honors Program.

CJS 495 INTERNSHIP IN CRIMINAL JUSTICE I
Supervised experience solely in a civilian capacity in a criminal justice or law-enforcement agency. Open to pre-service criminal justice studies majors only; in-service students do not qualify. Students who enroll for internship credit are not given a stipend. Credit granted only under grade option 2.
Prerequisite(s): 2.5 cumulative grade-point average; sophomore status; permission of program director.

CJS 496 INTERNSHIP IN CRIMINAL JUSTICE II
Continuation of CJS 495
CJS 497  SERVICE LEARNING EXPERIENCE

Supervised community research or service experience that complements a specific upper division course in Criminal Justice Studies. No more than 3 semester hours of Social Science 497 credits can count for graduation. Repeatable up to three semester hours.

Prerequisite(s): Permission of instructor.

Corequisite(s): CJS course (300-400-level).
School of Business Administration  
(ECO) Economics and Finance  
(Collapse Description)  
The Department of Economics and Finance offers majors in business economics and in finance for students in the School of Business Administration. The department also offers majors in economics and in applied mathematical economics for students in the College of Arts and Sciences (search these majors to view their requirements.) Minors in economics, business economics and finance are available to all students.

Faculty  
Elizabeth Gustafson, Chairperson  
Professors: Chen, Frasca, Rapp  
Associate Professors: Gustafson, Hadley, Mohan, Poitras, Ruggiero, Sauer, Steiner  
Assistant Professors: Lung, Oladi, Tay  
Lecturer: Douglas, John, Stapleton  

Sub-Categories / Concentrations / Focus Areas  
Business Economics  
Finance  

Courses (Collapse All Courses)  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introduction to consumer and producer behavior in a market economy, demand and supply, pricing and firm behavior under perfect and imperfect competition, and the distribution of income. Discussion of current topics in microeconomics may be included.</td>
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<tr>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>3</td>
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</tbody>
</table>
|        | Introductory economic analysis of the macroeconomy; the determination of gross national product, employment, inflation and the interest rate in the U.S. economy. Government policy, money and banking, and international trade are analyzed.  
**Prerequisite(s):** ECO 203 recommended. |           |
| ECO 300 | PRINCIPLES OF ECONOMICS                                      | 3         |
|        | An introductory, calculus enhanced analysis of consumer and producer behavior in a market economy, demand and supply, consumer choice theory, pricing and firm behavior under perfect and imperfect competition, game theory, the macro-economy, the determination of gross domestic product, employment, inflation, and the interest rate and the effect of government policy.  
**Prerequisite(s):** (MTH 168; engineering major) or permission of chairperson. |           |
| ECO 310 | ECONOMICS OF THE ENVIRONMENT                                 | 3         |
|        | Introduction to the economics of the global environment including analysis of market failure as a cause of environmental degradation. Topics covered include cost-benefits analysis, criteria for public investment, regulation of the environment, and the sustainable global environment.  
**Prerequisite(s):** ECO 203. |           |
| ECO 340 | MANAGERIAL ECONOMICS                                         | 3         |
|        | Application of economic models to managerial decision making. Topics include demand analysis, forecasting demand, short-run cost analysis, long-run cost and production functions, pricing, and risk and uncertainty. May not get credit for both ECO 340 and ECO 346.  
**Prerequisite(s):** ECO 203. |           |
ECO 346  INTERMEDIATE MICROECONOMIC ANALYSIS
Analysis of the theory of consumer behavior, production theory, equilibrium of the firm, price determination in various market structures, distribution of income, allocation of resources, and welfare economics. May not get credit for both ECO 346 and ECO 340.
Prerequisite(s): ECO 203.

ECO 347  INTERMEDIATE MACROECONOMIC ANALYSIS
National income accounting and the determination of the level of income and employment; classical, Keynesian, and post-Keynesian models; private, government, and foreign sectors; theories of inflation and economic growth.
Prerequisite(s): ECO 204, ECO 203 recommended.

ECO 390  ANTITRUST ECONOMICS
Study of how economic analysis has been applied in the interpretation of the antitrust statutes. Examines major anti-trust laws and relevant case law; reviews economic theories of market behavior.
Prerequisite(s): ECO 203.

ECO 410  BUSINESS AND ECONOMIC FORECASTING
Forecasting techniques, including ARIMA time series models, econometric models, moving averages, exponential smoothing, and time series decomposition, are used to forecast business and economic variables. Data sources, selection of appropriate forecasting tools and models, and evaluation of forecast results are studied.
Prerequisite(s): ECO 203 or 204; Statistics (MTH 207 or DSC 211 or MTH 367 or MTH 412).

ECO 415  GAME THEORY WITH BUSINESS APPLICATIONS
Introductory course in strategic decision making; provides a thorough discussion of the basic techniques of applied game theory and of systematic thinking in making business decisions. Among the topics covered with applications to business are equilibrium strategies, understanding situations involving conflict and cooperation, auction design and bidding strategy, and bargaining and negotiations.
Prerequisite(s): ECO 203.

ECO 441  ECONOMETRICS
Training in the art of making economic measurements from empirical data using regression analysis as the principle tool; use of computer software to estimate and test regression equations; interpretation of results using statistical inference.
Prerequisite(s): (ECO 203, 204; differential calculus and basic statistics) or permission of instructor.

ECO 442  MONEY AND BANKING
Principles of money and monetary systems; commercial banking and the role of the Federal Reserve System; monetary theory and policy; the mechanism of international payments.
Prerequisite(s): ECO 203, 204.

ECO 445  PUBLIC FINANCE
The economic aspects of government finance at the local, state, and especially the national level; the behavioral effects of various taxes, efficiency in spending, the changing role of the U.S. government, fiscal policy, and intergovernmental revenue and expenditure programs; emphasis on relating analytical tools to current developments.
Prerequisite(s): ECO 203, 204.

ECO 450  COMPARATIVE ECONOMIC SYSTEMS
Analysis of the principal tools of economic systems of the world, primarily capitalism, socialism, and communism. A comparative analysis of how each type of economic system allocates resources to achieve desired economic goals.
Prerequisite(s): ECO 203, 204.

ECO 460  ECONOMIC DEVELOPMENT AND GROWTH
Study of various dynamic economic theories of growth and structural change; the role of particular factors of production and related noneconomic variables in the development process, primarily, though not exclusively, of...
Third World nations.

**Prerequisite(s):** ECO 203, 204.

**ECO 461 INTERNATIONAL ECONOMICS**

Major issues surrounding international trade and finance, the economic interdependence of nations and businesses, essential theoretical and empirical tools necessary to monitor and analyze international economic phenomena, and the application of these tools to contemporary business problems and issues.

**Prerequisite(s):** ECO 203, 204; ECO 346 recommended.

**ECO 471 LABOR ECONOMICS**

Theory of labor supply and demand, human capital theory, and the process by which wages are determined in various factor markets; applications to topics of unemployment, unions, migration, discrimination, and skill differentials.

**Prerequisite(s):** ECO 203, 204.

**ECO 480 SPORTS ECONOMICS**

The application of economic analysis to the sports industry. Examines demand and efficiency in the product market; the labor market for professional athletes and mechanisms for restricting competition in that market; problems in achieving an efficient allocation of resources in the sports industry.

**Prerequisite(s):** ECO 203, 204; (DSC 211 or MTH 207 or equivalent).

**ECO 485 URBAN AND REGIONAL ECONOMICS**

Treatment of certain theoretical concepts such as location theory and theories of land use and land rent; an economic interpretation for the existence of cities; applying economic analysis to the problems of traffic congestion, pollution, race, poverty, and urban sprawl.

**Prerequisite(s):** ECO 203; (DSC 211 or MTH 207); ECO 346 recommended.

**ECO 490 SENIOR SEMINAR IN APPLIED ECONOMICS**

Economic analysis applied in an area of topical interest chosen by the instructor; includes the application of theoretical, mathematical, and statistical methods mastered in previous economics courses. This capstone course provides students an opportunity to extend their proficiency in economic analysis through application and discussion in a small group setting.

**Prerequisite(s):** Twelve semester hours in Economics.

**ECO 491 HONORS THESIS**

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**ECO 492 HONORS THESIS**

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**ECO 494 SEMINAR**

Subject varies from time to time. May be taken more than once if topic changes. Prerequisites to be announced.

**ECO 496 COOPERATIVE EDUCATION**

Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Does not count toward economics major. Permission of chairperson required.

**Prerequisite(s):** Permission of department chairperson.

**ECO 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT**

Practical work experience associated with career development and career exploration relating to the student's major. Permission of the department chair or designee required. Does not replace economics courses.

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001820&p=0&c=-1 7/10/2012
for the economics major.

**Prerequisite(s):** Forty-five semester hours of credit.

ECO 498 INDEPENDENT STUDY IN ECONOMICS (HONORS) 1 - 6

Directed readings and research in selected fields of economics. The number of semester hours will depend on the amount of work chosen. The course will involve periodic discussions with faculty and other students in the course. May be taken more than once for additional credit.

**Prerequisite(s):** 3.0 GPA in economics with a minimum of nine semester hours in economics; nomination by faculty; permission of the department chairperson.

FIN 300 PERSONAL FINANCE 3

Principles and techniques for handling personal financial decisions: personal budgeting, obtaining credit, life and casualty insurance, buying a home, buying an automobile, and savings and investments. For both business and nonbusiness majors. Does not count toward the finance major.

FIN 301 BUSINESS FINANCE 3

Principles and techniques used by business firms in managing and financing their current and fixed assets; sources of funds within the capital markets; determinants of the financial structure; analytical techniques.

**Prerequisite(s):** (ACC 207 or 301); ECO 203; junior standing.

FIN 310 INVESTMENT CENTER PEER MENTOR 1

Members of the Center for Portfolio Management and Security Analysis Staff mentor peers in effectively utilizing the various software and database packages within the Center for Portfolio Management and Security Analysis and assist in a range of developmental programs. Requires permission of the CFPM director. Does not count toward the finance major.

Grading option 2.

**Prerequisite(s):** Permission from Center for Portfolio Management.

FIN 321 FINANCING ENTREPRENEURIAL VENTURES 3

Focuses on financial aspects of starting, growing, and harvesting entrepreneurial ventures. Includes emphasis placed on how common financing deals are structured, common financing pitfalls, and various legal documentation used to consummate financial transactions. Same as MGT 321.

**Prerequisite(s):** (FIN 301 or MGT 320); junior standing.

FIN 330 INSURANCE AND RISK MANAGEMENT 3

Study of the basic concepts of business and personal risks from the standpoint of creation, identification, reduction, elimination, and evaluation of risks; the use of insurance in meeting problems of risk.

FIN 336 PRINCIPLES OF REAL ESTATE 3

Survey of real estate industry with emphasis on its structure, regulations, growth, needs, financing, and future. Analysis of the methods for determining land use and evaluation of the theories of city development.

FIN 360 INVESTMENTS 3

The principles and techniques used by the investor in selecting securities, emphasis on the stock and bond markets; security valuation methods leading to the selection of individual issues; portfolio theory.

**Prerequisite(s):** FIN 301.

FIN 371 FINANCIAL MARKETS AND INSTITUTIONS 3

Study of financial markets and financial institutions, including the Federal Reserve, interest rate theories, money and capital market securities, interest rate futures, options and swaps, international financial markets, such as commercial banking, insurance, and investment banking.

**Prerequisite(s):** FIN 301.

FIN 401 ADVANCED FINANCIAL ANALYSIS 3

Advanced study of current developments in financial planning, acquisition of funds, and asset management valuation; policy strategy and techniques in financial decision making.

**Prerequisite(s):** FIN 301.

FIN 410 INVESTMENT CENTER OPERATING COMMITTEE 1
Members of the Center for Portfolio Management and Security Analysis Operating Committee provide leadership within the CFPM structure. Responsible for achieving assigned unit objectives, managing a team, and taking a leadership position for a range of center initiatives and projects that directly impact the effective implementation of the Center's overall strategic objectives. Requires permission of the CFPM director. Does not count toward the finance major. Grading option 1.

Prerequisite(s): Permission from Center for Portfolio Management.

FIN 430 TOPICS IN CORPORATE FINANCE 3
Focus is on how firms create value for their shareholders. Examines the definition and measurement of shareholder value; explores operating and financing strategies that create value; evaluates management incentives and their alignment with shareholder interests.
Prerequisite(s): FIN 360 or 401.

FIN 450 INTERNATIONAL BUSINESS FINANCE 3
Introduction to problems facing financial management of international companies, including foreign exchange risk, working capital and capital budgeting decisions for multinational corporations, international financing, accounting and control.
Prerequisite(s): FIN 301.

FIN 460 PORTFOLIO MANAGEMENT AND SECURITY ANALYSIS 3
Advanced valuation theory and security analysis; portfolio construction, evaluation, and management.
Prerequisite(s): FIN 360.

FIN 460L PORTFOLIO MANAGEMENT LAB 1
Provide analyst support for the Seminar in Investments course and the Flyer Investments team. Requires previous or concurrent enrollment in FIN 460 and instructor permission. Does not count toward the finance major. Grading option 2.

FIN 470 FIXED INCOME SECURITIES 3
Introduction to the analytical/computational techniques for pricing fixed income securities, interest rate derivatives, and implementing effective portfolio strategies to control interest rate risk and enhance return.
Prerequisite(s): FIN 360 or 371.

FIN 471 MANAGEMENT OF FINANCIAL INSTITUTIONS 3
Integrated and comprehensive analysis of financial institutions that include depository institutions, insurance companies, securities firms, and investment companies.
Prerequisite(s): FIN 371.

FIN 475 COMMERCIAL BANK MANAGEMENT 3
Explores the environment in which banks must operate, the financial statements of banks, and a thorough study of bank management topics which include: asset-liability management, the investment portfolio, sources of funds, and the loan portfolio. The methodology includes a bank simulation game.
Prerequisite(s): FIN 301; (FIN 360 or 371).

FIN 480 OPTIONS AND FUTURES MARKETS 3
Study of options, futures, and other derivatives fundamentals, trading strategies, hedging, speculation, and arbitrating, pricing theories, and market regulations.
Prerequisite(s): FIN 301; (FIN 360 or 371).

FIN 491 HONORS THESIS 3
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

FIN 492 HONORS THESIS 3
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.
FIN 493  SEMINAR IN INVESTMENTS
Application of investment theory and techniques in a real-world setting. Students manage a funded portfolio in terms of establishing objectives, selecting securities to buy (sell), and evaluating portfolio performance. Emphasis is placed upon attempting to identify undervalued common stocks. Admission to the course is limited and must be approved by the instructor. 
Prerequisite(s): FIN 360; FIN 460 highly recommended.

FIN 493L SEMINAR IN INVESTMENTS LAB
Provide leadership in facilitating the supporting analyst role for the Seminar in Investments course. Requires previous or concurrent enrollment in FIN 493 and instructor permission. Does not count toward the finance major. Grading option 1.

FIN 494  SEMINAR
Subject varies from time to time. May be taken more than once if topic changes.
Prerequisite(s): To be announced.

FIN 495  COOPERATIVE EDUCATION
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Does not count toward finance major. Permission of chairperson required.
Prerequisite(s): Permission of department chairperson.

FIN 497  INTERNSHIP FOR GENERAL ELECTIVE CREDIT
Practical work experience associated with career development and career exploration relating to the student's major. Permission of department chair or designee required. Does not replace finance courses for the finance major.
Prerequisite(s): Forty-five semester hours of credit.

FIN 498  INDEPENDENT STUDY IN FINANCE
Directed readings and research in selected fields of finance. The number of semester hours will depend on the amount of work chosen. The course will involve periodic discussions with other students and faculty in the program. May be taken more than once for additional credit.
Prerequisite(s): 3.0 GPA in Finance; minimum of nine semester hours in Finance; nomination by faculty; permission of department chairperson.
School of Business Administration  
(ECO) Economics and Finance

You are currently viewing Business Economics, an academic area in Economics and Finance. To view academic information for Economics and Finance, click here.

(ECB) Business Economics  
(Collapse Description)  
Economics teaches students to think analytically about problems that arise in business, politics, and everyday life. The business economics major offers students the strength of economic theory combined with a focus in an area of applied business and develops the student's quantitative skills by requiring course work in econometrics or forecasting. The major is excellent preparation for a wide range of employment opportunities in business, government and education. It also prepares students for graduate study in law, public policy, and business. Students who wish to pursue graduate study in economics should supplement the major with additional mathematics courses or major in applied mathematical economics.

A major in business economics requires: ECO 203-204 (with a grade of C or better), ECO 340 or 346, ECO 410 or 441, ECO 490, 6 additional semester hours of economics electives, and a breadth requirement of 6 semester hours of courses in one other business discipline chosen from a list of approved courses. See the department office or website for the approved breadth requirement courses. The breadth courses should be chosen to complement the economics electives taken by the student.

The program below contains all of the requirements for a business economics major. There is flexibility in the sequencing of some courses. Consult an academic advisor for sequencing options.

Faculty
Elizabeth Gustafson, Chairperson
Professors: Frasca, Rapp
Associate Professors: Gustafson, Hadley, Politas, Ruggiero
Assistant Professors: Oiedi
Lecturer: John

Majors/Minors  
(Collapse All)  
Major/Minor Name
Bachelor of Science with a major in Business Economics (ECB)

First-Year  
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<tr>
<th>Course</th>
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<th>Sem. Hrs.</th>
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<tr>
<td>BAI 103L</td>
<td>BUSINESS COMPUTING LABORATORY</td>
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<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
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<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
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<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
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<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
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<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
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<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<td>MTH 128</td>
<td>FINITE MATHEMATICS</td>
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<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
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<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
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<td>Social Science elective</td>
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Sophomore-Year  
ACCT 207  INTRODUCTION TO FINANCIAL ACCOUNTING  
Sem. Hrs. 29-32
### University of Dayton - the Bulletin - Business Economics

#### ACC 208
INTRODUCTION TO MANAGERIAL ACCOUNTING 3

#### CMM 111
INFORMATIVE PUBLIC SPEAKING 1

#### CMM 112
INTERVIEWING 1

#### DSC 210
STATISTICS FOR BUSINESS I 3

#### DSC 211
STATISTICS FOR BUSINESS II 3

#### ECO 203
PRINCIPLES OF MICROECONOMICS 3

#### ECO 204
PRINCIPLES OF MACROECONOMICS 3

#### MGT 201
LEGAL ENVIRONMENT OF BUSINESS 3

### Additional Communication Requirement
3

### General Education Requirements
3-6

#### Junior-Year

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<td>ECO 340 or 346</td>
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<td>MANAGERIAL ECONOMICS (ECO 340)</td>
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<tr>
<td>INTERMEDIATE MICROECONOMIC ANALYSIS (ECO 346)</td>
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<th>Course</th>
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<td>ECO 410 or 441</td>
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<td>BUSINESS AND ECONOMIC FORECASTING (ECO 410)</td>
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<td>ECONOMETRICS (ECO 441)</td>
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<td>FIN 301</td>
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<td>BUSINESS FINANCE</td>
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<td>MGT 301</td>
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<td>MIS 301</td>
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<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
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<td>PRINCIPLES OF MARKETING</td>
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<td>OPS 301</td>
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<td>SURVEY OF OPERATIONS MANAGEMENT</td>
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### General Education Requirement
3

### Breadth Requirement elective
3

### ECO elective
3

#### Senior-Year

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<td>ECO 490</td>
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<td>SENIOR SEMINAR IN APPLIED ECONOMICS</td>
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<td>MGT 490</td>
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<td>MANAGING THE ENTERPRISE</td>
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<th>Hours</th>
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<td>PHL 313 or REL 368</td>
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<tr>
<td>BUSINESS ETHICS (PHL 313) or CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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### General electives
12

### General Education Requirement
3

### Breadth Requirement elective
3

### ECO elective
3

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1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. Some general education courses are specified in the programs (e.g. PHL 103); others are to be selected from the list of approved courses for general education. See faculty advisor.
6. SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.
7. Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.
8. Business economics majors are required to take 6 semester hours of electives chosen from approved courses in one other business discipline. A list of approved courses is available from the department office or website.
9. A minimum of 54 semester hours of all academic work must be at the 300-400 level.

Minor in Business Economics (ECB)
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<th>Course Title</th>
<th>Credits</th>
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<td>ECO 340 or 346</td>
<td>MANAGERIAL ECONOMICS (ECO 340)</td>
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<td>INTERMEDIATE MICROECONOMIC ANALYSIS (ECO 346)</td>
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<tr>
<td>ECO 410 or 441</td>
<td>BUSINESS AND ECONOMIC FORECASTING</td>
<td>3</td>
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<tr>
<td></td>
<td>(ECO 410)</td>
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<tr>
<td></td>
<td>ECONOMETRICS (ECO 441)</td>
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<tr>
<td>ECO electives</td>
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</table>
School of Business Administration
(ECO) Economics and Finance

You are currently viewing Finance, an academic area in Economics and Finance. To view academic information for Economics and Finance, click here.

(FIN) Finance (Collapse Description)

The finance major provides students with a working understanding of the financial decision-making process, how financial markets function, and the acquisition and management of capital. Students may elect course concentrations in investment analysis and portfolio management, financial institutions and services, or corporate financial management. Students will be prepared for a variety of careers in business and in the government sector with work in areas such as financial analysis, capital budgeting, banking, mergers and acquisitions, cash management, financial planning, investment analysis and portfolio management, brokerage, real estate, and insurance. A major in finance is also excellent preparation for graduate study in finance, business administration, or corporate and securities law.

The major in finance consists of 21 semester hours: FIN 301, Business Finance; FIN 360, Investments; FIN 371, Financial Markets and Institutions, 9 semester hours of 400 level finance electives, and 3 additional semester hours of 300 or 400 level finance electives or ACC 305.

The program below contains all of the requirements for a finance major. There is flexibility in the sequencing of some courses. Consult an academic advisor for sequencing options.

Faculty
Elizabeth Gustafson, Chairperson
Carl Chen, William J. Hoben Professor of Finance
Professor: Chen
Associate Professors: Mohan, Sauer, Steiner
Assistant Professors: Lung, Tay
Lecturer: Douglas, Stapleton

 Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Science with a major in Finance (FIN)

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<tr>
<th>Semester Hours</th>
<th>First-Year</th>
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<tr>
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<tr>
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<td>ACC 207</td>
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<td>1</td>
<td>207 INTRODUCTION TO FINANCIAL ACCOUNTING</td>
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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001789&c=-1&p=-1
### University of Dayton - the Bulletin - Finance

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<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
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<td>CMM 111</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
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<td>CMM 113</td>
<td>INTERVIEWING</td>
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<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
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<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
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<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
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<td>PRINCIPLES OF MACROECONOMICS</td>
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<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
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**Additional Communication Requirement**

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<tr>
<td>Physical and Life Sciences elective</td>
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<td>HST elective</td>
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**Junior-Year**

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<th>Code</th>
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<tr>
<td>FIN 301</td>
<td>BUSINESS FINANCE</td>
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<tr>
<td>FIN 360</td>
<td>INVESTMENTS</td>
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<td>MGT 301</td>
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<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
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<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
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**General elective**

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**Senior-Year**

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<td>PHIL 313</td>
<td>BUSINESS ETHICS (PHIL 313)</td>
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<td>or REL 368</td>
<td>CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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**General electives**

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**Minor in Finance (FIN)**

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<td>FIN 360</td>
<td>INVESTMENTS</td>
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<tr>
<td>FIN 371</td>
<td>FINANCIAL MARKETS AND INSTITUTIONS</td>
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</table>

**Sem. Hrs.**

1. At least three semester hours at the 400-level.

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1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
6. SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.
7. Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.
8. A minimum of 54 sem. hrs. of all academic work must be at the 300-400 level.
9. Select any 300 or 400 level economics course.
10. 9 semester hours of 400 level finance courses and 3 semester hours of 300 or 400 level finance courses or ACC 305.
### Courses

#### Code Title Sem. Hrs.
FIN 300 PERSONAL FINANCE 3
Principles and techniques for handling personal financial decisions; personal budgeting, obtaining credit, life and casualty insurance, buying a home, buying an automobile, and savings and investments. For both business and nonbusiness majors. Does not count toward the finance major.

FIN 301 BUSINESS FINANCE 3
Principles and techniques used by business firms in managing and financing their current and fixed assets; sources of funds within the capital markets; determinants of the financial structure; analytical techniques.
Prerequisite(s): (ACC 207 or 301); ECO 203; junior standing.

FIN 310 INVESTMENT CENTER PEER MENTOR 1
Members of the Center for Portfolio Management and Security Analysis Staff mentor peers in effectively utilizing the various software and database package resources within the Center for Portfolio Management and Security Analysis and assist in a range of developmental programs. Requires permission of the CFPM director. Does not count toward the finance major. Grading option 2.
Prerequisite(s): Permission from Center for Portfolio Management.

FIN 321 FINANCING ENTREPRENEURIAL VENTURES 3
Focuses on financial aspects of starting, growing, and harvesting entrepreneurial ventures. Includes emphasis placed on how common financing deals are structured, common financing pitfalls, and various legal documentation used to consummate financial transactions. Same as MGT 321.
Prerequisite(s): (FIN 301 or MGT 320); junior standing.

FIN 330 INSURANCE AND RISK MANAGEMENT 3
Study of the basic concepts of business and personal risks from the standpoint of creation, identification, reduction, elimination, and evaluation of risks; the use of insurance in meeting problems of risk.

FIN 336 PRINCIPLES OF REAL ESTATE 3
Survey of real estate industry with emphasis on its structure, regulation, growth, needs, financing, and future. Analysis of the methods for determining land use and evaluation of the theories of city development.

FIN 360 INVESTMENTS 3
The principles and techniques used by the investor in selecting securities, emphasis on the stock and bond markets; security valuation methods leading to the selection of individual issues; portfolio theory.
Prerequisite(s): FIN 301.

FIN 371 FINANCIAL MARKETS AND INSTITUTIONS 3
Study of financial markets and financial institutions, including the Federal Reserve, interest rate theories, money and capital market securities, interest rate futures, options and swaps, international financial markets, such as commercial banking, insurance, and investment banking.
Prerequisite(s): FIN 301.

FIN 401 ADVANCED FINANCIAL ANALYSIS 3
Advanced study of current developments in financial planning, acquisition of funds, and asset management valuation; policy strategy and techniques in financial decision making.
Prerequisite(s): FIN 301.

FIN 410 INVESTMENT CENTER OPERATING COMMITTEE 1
Members of the Center for Portfolio Management and Security Analysis Operating Committee provide leadership within the CFPM structure. Responsible for achieving assigned unit objectives, managing a team, and taking a leadership position for a range of center initiatives and projects that directly impact the effective implementation of the Center's overall strategic objectives. Requires permission of the CFPM director. Does not count...
toward the finance major. Grading option 1.
Prerequisite(s): Permission from Center for Portfolio Management.

**FIN 430 TOPICS IN CORPORATE FINANCE**  
Focus is on how firms create value for their shareholders. Examines the definition and measurement of shareholder value; explores operating and financing strategies that create value; evaluates management incentives and their alignment with shareholder interests.  
Prerequisite(s): FIN 360 or 401.

**FIN 450 INTERNATIONAL BUSINESS FINANCE**  
Introduction to problems facing financial management of international companies, including foreign exchange risk, working capital and capital budgeting decisions for multinational corporations, international financing, accounting and control.  
Prerequisite(s): FIN 301.

**FIN 460 PORTFOLIO MANAGEMENT AND SECURITY ANALYSIS**  
Advanced valuation theory and security analysis; portfolio construction, evaluation, and management.  
Prerequisite(s): FIN 360.

**FIN 460L PORTFOLIO MANAGEMENT LAB**  
Provide analyst support for the Seminar in Investments course and the Flyer Investments team. Requires previous or concurrent enrollment in FIN 460 and instructor permission. Does not count toward the finance major. Grading option 2.

**FIN 470 FIXED INCOME SECURITIES**  
Introduction to the analytical/computational techniques for pricing fixed income securities, interest rate derivatives, and implementing effective portfolio strategies to control interest rate risk and enhance return.  
Prerequisite(s): FIN 360 or 371.

**FIN 471 MANAGEMENT OF FINANCIAL INSTITUTIONS**  
Integrated and comprehensive analysis of financial institutions that include depository institutions, insurance companies, securities firms, and investment companies.  
Prerequisite(s): FIN 371.

**FIN 475 COMMERCIAL BANK MANAGEMENT**  
Explores the environment in which banks must operate, the financial statements of banks, and a thorough study of bank management topics which include: asset-liability management, the investment portfolio, sources of funds, and the loan portfolio. The methodology includes a bank simulation game.  
Prerequisite(s): FIN 301; (FIN 360 or 371).

**FIN 480 OPTIONS AND FUTURES MARKETS**  
Study of options, futures, and other derivatives fundamentals, trading strategies, hedging, speculation, and arbitrating, pricing theories, and market regulations.  
Prerequisite(s): FIN 301; (FIN 360 or 371).

**FIN 491 HONORS THESIS**  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**FIN 492 HONORS THESIS**  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**FIN 493 SEMINAR IN INVESTMENTS**  
Application of investment theory and techniques in a real-world setting. Students manage a funded portfolio in terms of establishing objectives, selecting securities to buy (sell), and evaluating portfolio performance. Emphasis is placed upon attempting to identify undervalued common stocks.
Admission to the course is limited and must be approved by the instructor. **Prerequisite(s):** FIN 360; FIN 460 highly recommended.

**FIN 493L SEMINAR IN INVESTMENTS LAB**

Provide leadership in facilitating the supporting analyst role for the Seminar in Investments course. Requires previous or concurrent enrollment in FIN 493 and instructor permission. Does not count toward the finance major. Grading option 1.

FIN 494 SEMINAR

Subject varies from time to time. May be taken more than once if topic changes. **Prerequisite(s):** To be announced.

**FIN 496 COOPERATIVE EDUCATION**

Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Does not count toward finance major. Permission of chairperson required. **Prerequisite(s):** Permission of department chairperson.

**FIN 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT**

Practical work experience associated with career development and career exploration relating to the student's major. Permission of department chair or designee required. Does not replace finance courses for the finance major. **Prerequisite(s):** Forty-five semester hours of credit.

**FIN 498 INDEPENDENT STUDY IN FINANCE**

Directed readings and research in selected fields of finance. The number of semester hours will depend on the amount of work chosen. The course will involve periodic discussions with other students and faculty in the program. May be taken more than once for additional credit. **Prerequisite(s):** 3.0 GPA in Finance; minimum of nine semester hours in Finance; nomination by faculty; permission of department chairperson.
School of Engineering
(ECE) Electrical and Computer Engineering
(Collapse Description)

The Department of Electrical and Computer Engineering offers two ABET accredited undergraduate programs leading to the Bachelor of Electrical Engineering and the Bachelor of Science in Computer Engineering. The department offers masters and doctoral degrees in electrical engineering and is closely coupled to the graduate program in electro-optics where both master’s and doctoral degrees are offered. Recently, the electrical and computer engineering department started offering an accelerated 5 year B.S. - M.S. program, where students completing their Bachelor of Science can attain their Master of Science in Electrical Engineering within one additional year.

The mission of the Department of Electrical and Computer Engineering is to develop in students the skills and knowledge to learn, lead and serve in their profession and their community.

Our electrical engineering alumni will be prepared to:

1. find rewarding careers as engineering professionals. As electrical engineers they will be prepared to design and develop new products, technologies and processes that incorporate one or more of the following elements: analog and digital circuits, signals and systems, propagation and processing of signals, and control systems.
2. continue their professional education either formally, in graduate school, professional schools, or through industrial training programs; or informally, though activities such as continuing education, attendence in short courses, professional workshops and conferences.
3. exercise and further develop their skills in professional communication through activities such as project briefings, conference presentations, technical reports and manuals, and journal publications.
4. participate in activities for the betterment of society, and carry on the traditions of the University of Dayton by maintaining high ethical standards in their professional activities, and by serving their country and community through service, leadership and mentoring.

Our computer engineering alumni will be prepared to:

1. find rewarding careers as engineering professionals. As computer engineers they will be prepared to design and develop new products, technologies and processes that incorporate one or more of the following elements: analog and digital circuits, signals and systems, computer design, software development, and hardware/software integration.
2. continue their professional education either formally, in graduate school, professional schools, or through industrial training programs; or informally, though activities such as continuing education, attendence in short courses, professional workshops and conferences.
3. exercise and further develop their skills in professional communication through activities such as project briefings, conference presentations, technical reports and manuals, and journal publications.
4. participate in activities for the betterment of society, and carry on the traditions of the University of Dayton by maintaining high ethical standards in their professional activities, and by serving their country and community through service, leadership and mentoring.

Electrical engineering is an exciting field within the engineering discipline. It offers the opportunity to enter some of the most rewarding and challenging careers available. The explosion of capabilities in the computer, communication, automotive, medical, entertainment and aerospace industries, as well as homeland security has resulted from advances in the electronics field. Electrical engineers are equipped to enter this dynamic arena as well as equally challenging and rewarding careers in the fields of electro-optics, communication, radar, signal and image processing, biomedicine, controls, robotics and instrumentation, and many more. Electrical engineers work in all phases of technological programs. They are involved from the conception of the basic ideas through design, fabrication, verification, manufacturing, and marketing of the final product.

Computer engineering represents perhaps the most sought-after professional component of an engineering team which develops the technological possibilities.
inherent in the design, construction, and operation of computer systems. The computer engineer performs a wide variety of tasks involving hardware, software, peripherals, computer-controlled systems, and hardware-software integration, as well as computer applications in the multitude of areas listed in the previous paragraph.

Both electrical engineering and computer engineering are broad-based engineering disciplines that provide for a wide range of career choices within the engineering field as well as providing an excellent basis for careers in such diverse areas as business, law, and medicine.

The electrical engineering curriculum is designed to provide an understanding of basic electrical engineering principles with emphasis on the development of problem solving skills. The computer engineering curriculum draws from software courses taken in computer science and hardware related courses taken from Electrical and Computer Engineering, culminating in integration of hardware and software in computer design. An extensive laboratory experience is integrated with the classroom work to assure that the student develops a working knowledge of the fundamentals. Upper level courses integrate the knowledge base with current technology and computational tools resulting in a graduate capable of making a contribution to the engineering profession by either entering the work force or pursuing a graduate education.

The computer engineering curriculum is designed to provide an understanding of basic computer engineering principles with emphasis on the development of problem solving skills. The software aspects of computer engineering are introduced in the first year, while hardware and hardware-software integration topics are emphasized starting in the sophomore year. An extensive hands-on laboratory experience is integrated with the classroom work to assure that the student develops a working knowledge of the fundamentals.

Faculty
Partha P. Banerjee, Chairperson
Distinguished Service Professor: Schmidt
Professors Emeriti: Evers, Kee, Rogers, Thiele, Williamson
Professors: Chatterjee, Duncan, Moon, Pasala, Scarpino, Weber
Associate Professors: Hardie, Loomis, Ordenez, Penno, Smari, Subramanyam,
Assistant Professors: Daniels
Adjunct Professors: Berrera, El-Ali, Gauder, Mayhan, Repperger

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Electrical Engineering (ELE)

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<th>First-Year</th>
<th>Sem. Hrs.</th>
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<td>CHM 123 GENERAL CHEMISTRY</td>
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<td>CPS 132 COMPUTER PROGRAMMING FOR ENGINEERING AND SCIENCE</td>
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<td>ECE 101 INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING</td>
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<tr>
<td>EGR 100 ENRICHMENT WORKSHOP</td>
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<td>EGR 101 INTRODUCTION TO ENGINEERING DESIGN</td>
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<td>ENG 101-102 or 114 or 198 COLLEGE COMPOSITION I (ENG 101)</td>
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<td>HST 103 or 198 THE WEST AND THE WORLD (HST 103)</td>
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<td>MTH 168 ANALYTIC GEOMETRY AND CALCULUS I</td>
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<td>MTH 169 ANALYTIC GEOMETRY AND CALCULUS II</td>
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<td>PHL 103 INTRODUCTION TO PHILOSOPHY</td>
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<td>PHY 206 GENERAL PHYSICS I-MECHANICS</td>
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<td>PHY 210L GENERAL PHYSICS LABORATORY I</td>
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<td>REL 103 INTRODUCTION TO RELIGION</td>
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<td>ECE 201-201L CIRCUIT ANALYSIS (ECE 201)</td>
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<td>EGM 213 STATICS AND MECHANICS OF MATERIALS</td>
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<td>SIGNALS AND SYSTEMS (ECE 202) SIGNALS AND SYSTEMS LABORATORY (ECE 202L)</td>
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<td>ECE 203L</td>
<td>INTRODUCTION TO MATLAB PROGRAMMING</td>
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<tr>
<td>ECE 215-215L</td>
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<td>CMM 113</td>
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<td>DISCRETE SIGNALS AND SYSTEMS</td>
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<td>ECE 431L</td>
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¹Select from list approved by the Department of Electrical and Computer Engineering.

Bachelor of Science in Computer Engineering (CPE)
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<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
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<td>INTRODUCTION TO ENGINEERING DESIGN</td>
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<tr>
<td>ENG 101-102 or 114 or 198</td>
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<td>HST 103 or 198</td>
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<td>MTH 168</td>
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General Education elective 3

### Sophomore-Year

**First-Term**

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<td>ECE 201</td>
<td>CIRCUIT ANALYSIS (ECE 201)</td>
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**Second-Term**

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<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
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<td>SIGNALS AND SYSTEMS (ECE 202)</td>
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<td>ECE 203L</td>
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<tr>
<td>ECE 215-215L</td>
<td>INTRODUCTION TO DIGITAL SYSTEMS (ECE 215)</td>
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<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
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<td>PHY 232</td>
<td>THE PHYSICS OF WAVES</td>
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### Junior-Year

**First-Term**

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<td>CMM 111 or 112</td>
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<td>CPS 350</td>
<td>DATA STRUCTURES AND ALGORITHMS</td>
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<tr>
<td>ECE 301-301L</td>
<td>ELECTRONIC DEVICES (ECE 301)</td>
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<td>ECE 334</td>
<td>DISCRETE SIGNALS AND SYSTEMS</td>
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<td>ECE 340</td>
<td>ENGINEERING PROBABILITY AND RANDOM PROCESSES</td>
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<td>PHL 319</td>
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**Second-Term**

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<td>CMM 113</td>
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<tr>
<td>CPS 346</td>
<td>OPERATING SYSTEMS I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 302-302L</td>
<td>ELECTRONIC SYSTEMS (ECE 302)</td>
<td>4</td>
</tr>
<tr>
<td>ECE 314</td>
<td>FUNDAMENTALS OF COMPUTER ARCHITECTURE</td>
<td>3</td>
</tr>
<tr>
<td>MTH 343</td>
<td>MATHEMATICS FOR ELECTRICAL AND COMPUTER ENGINEERS</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education elective 3

### Senior-Year

**First-Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CPS 418</td>
<td>SOFTWARE ENGINEERING</td>
<td>3</td>
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<tr>
<td>CPS 444</td>
<td>SYSTEMS PROGRAMMING I</td>
<td>3</td>
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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001847&p=-1&c=-1 7/10/2012
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<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tr>
<td>ECE 101</td>
<td>INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING</td>
<td>0</td>
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<tr>
<td>ECE 201</td>
<td>CIRCUIT ANALYSIS</td>
<td>4</td>
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<td>ECE 202</td>
<td>SIGNALS AND SYSTEMS</td>
<td>4</td>
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<tr>
<td>ECE 203</td>
<td>INTRODUCTION TO MATLAB PROGRAMMING</td>
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<td>ECE 211</td>
<td>PROBABILITY AND STATISTICS</td>
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<td>ECE 215</td>
<td>INTRODUCTION TO DIGITAL SYSTEMS</td>
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<td>ECE 211L</td>
<td>CIRCUIT ANALYSIS LABORATORY</td>
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<td>ECE 202L</td>
<td>SIGNALS AND SYSTEMS LABORATORY</td>
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<td>ECE 203L</td>
<td>INTRODUCTION TO MATLAB PROGRAMMING</td>
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<tr>
<td>ECE 215L</td>
<td>INTRODUCTION TO DIGITAL SYSTEMS</td>
<td>3</td>
</tr>
</tbody>
</table>

Introduction to electrical and computer engineering faculty, facilities, and curriculum. Career opportunities in electrical and computer engineering and areas of specialization are discussed.

Prerequisite(s): MTH 168.
Corequisite(s): ECE 201.

Laboratory course stressing experimental techniques, laboratory reporting, safety, and instrumentation. Experimental investigation of basic steady-state and transient circuits.

Corequisite(s): ECE 201.

Mathematical framework associated with the analysis of linear systems including signal representation by orthogonal functions, convolution, Fourier and Laplace analysis, and frequency response of circuits and systems.

Prerequisite(s): ECE 201; MTH 218.
Corequisite(s): ECE 202.

Laboratory investigation of signals and systems including signal decomposition, system impulse response, convolution, frequency analysis of systems, and filter design and realization.

Prerequisite(s): ECE 201L.
Corequisite(s): ECE 202.

MATLAB system and development environment, vector and matrix operations using MATLAB, linear algebra and calculus using MATLAB, MATLAB graphics, flow control, symbolic math toolbox. Prerequisites: CPS 132 or CPS 150, or equivalent.

Prerequisite(s): CPS 132 or (CPS 150 or equivalent).

Introduction to the topics of random variables, probability density functions, cumulative distribution functions, mean values and moments

Prerequisite(s): MTH 168.

Introduction to binary systems, logic circuits, Boolean algebra, simplification methods, combinational circuits and networks, programmable logic devices, flip flops, registers, counters, memory elements, and analysis and design of
sequential circuits.  
Prerequisite(s): ECE 201.
Corequisite(s): ECE 215L.

ECE 215L DIGITAL SYSTEMS LABORATORY
Laboratory investigation of digital logic circuits and systems covered in ECE 215. Logic gate characteristics; combinational logic design and analysis; latches and flip-flops; synchronous and asynchronous sequential logic; simple digital systems. Experiments include design and analysis of digital systems using breadboarding, FPGA boards, modeling and simulation tools, hardware description languages, and logic synthesis tools.
Prerequisite(s): ECE 201, 201L.
Corequisite(s): ECE 215.

ECE 301 ELECTRONIC DEVICES
Study of the terminal characteristics of electronic devices and basic single stage amplifier configurations using bipolar junction transistors and field-effect transistors. Analysis of the devices includes a qualitative physical description, volt-ampere curves, and the development of small- and large-signal equivalent circuit models.
Prerequisite(s): ECE 201.
Corequisite(s): ECE 301L.

ECE 301L ELECTRONIC DEVICES LABORATORY
Laboratory investigation of electronic devices: diodes, bipolar junction transistors, field-effect transistors and operational amplifiers.
Corequisite(s): ECE 301.

ECE 302 ELECTRONIC SYSTEMS
Study of cascaded amplifiers, feedback amplifiers, linear integrated circuits, and oscillators including steady state analysis and analysis of frequency response.
Prerequisite(s): ECE 202, 301.
Corequisite(s): ECE 302L.

ECE 302L ELECTRONIC SYSTEMS LABORATORY
Design, construction and verification of multistage feedback amplifiers, passive and active filters, and oscillators.
Prerequisite(s): ECE 301L.
Corequisite(s): ECE 302.

ECE 314 FUNDAMENTALS OF COMPUTER ARCHITECTURE
Study of computer systems organization, representation of data and instructions, instruction set architecture, processor and control units, memory devices and hierarchy, I/O devices and interfacing peripherals, high- to low-level language mapping, system simulation and implementation, applications and practical problems.
Prerequisite(s): ECE 215; CPS 132 or 150.

ECE 323 BASIC ELECTRONIC CIRCUITS
Analysis and design of passive and active electrical and electronic circuits using time-domain- and frequency-domain methods. Includes amplifiers, switches, and other types of electronic circuits. Lectures will be reinforced with practical and computer exercises. For chemical, civil, environmental and mechanical engineering students.
Prerequisite(s): MTH 218; PHY 207.

ECE 332 ELECTROMAGNETICS
Study of vector calculus, electro- and magneto-statics, Maxwell's equations, and electromagnetic plane waves and their reflection and transmission from discontinuities.
Prerequisite(s): PHY 299.

ECE 333 APPLIED ELECTROMAGNETICS
Electromagnetic theory applied to problems in the areas of waveguides, radiation, electro-optics and electromagnetic interference and electromagnetic compatibility.
Prerequisite(s): ECE 332.

ECE 334 DISCRETE SIGNALS AND SYSTEMS
Introduction to discrete signals and systems including sampling and reconstruction of continuous signals, digital filters, frequency analysis, the Z-transform, and the discrete Fourier transform.

**Prerequisite(s):** ECE 202.

**ECE 340** ENGINEERING PROBABILITY AND RANDOM PROCESSES

Axiomatic probability, derived probability relationships, conditional probability, statistical independence, total probability and Bayes' Theorem, counting techniques, common random variables and their distribution functions, transformations of random variables, moments, autocorrelation, power spectral density, cross correlation and covariance, random processes through linear and nonlinear systems, linear regression, and engineering decision strategies.

**Prerequisite(s):** ECE 202; MTH 218.

**ECE 401** COMMUNICATION SYSTEMS

Study of amplitude, angle, pulse, and digital communication systems including generation, detection, and analysis of modulated signals and power, bandwidth, and noise considerations.

**Prerequisite(s):** ECE 340, 302.

**Corequisite(s):** ECE 401L.

**ECE 401L** COMMUNICATION SYSTEMS LABORATORY

Design, fabrication, and laboratory investigation of modulators, detectors, filters, and associated communication components and systems.

**Prerequisite(s):** ECE 302L.

**Corequisite(s):** ECE 401.

**ECE 414** ELECTRO-MECHANICAL DEVICES

Properties and theory of electro-mechanical devices: nonlinear electromagnetic actuators; rotating machine analysis; field and circuit concepts; rotating fields; direct current, synchronous, and induction machines; special-purpose machines; and fractional horsepower machines.

**Prerequisite(s):** ECE 202, 332.

**ECE 415** CONTROL SYSTEMS

Study of mathematical models for control systems and analysis of performance characteristics and stability. Design topics include pole-placement, root locus, and frequency domain techniques.

**Prerequisite(s):** ECE 202.

**ECE 431L** MULTIDISCIPLINARY ENGINEERING DESIGN I

Multidisciplinary engineering design projects and problems. Introduction to product development using the Product Realization Process. Concentration on proposals, specifications, conceptualization and decision analysis. Projects result in final design and prototyping in the follow-on course.

**Prerequisite(s):** ECE 202, 314.

**ECE 432L** MULTIDISCIPLINARY ENGINEERING DESIGN II

Combination of lecture and laboratory experiences. The focus of the lecture is on project management aspects of engineering design, including communication, collaboration, project tracking methods, cost estimating, overhead, direct labor costs, time value of money, depreciation, and return on investment. The focus of the lab is on a multidisciplinary team design project. Detailed evaluation of the Product Realization Process (PRP), including specifications, innovation, conceptualization, decision analysis, embodiment design, final design and prototyping. Analysis of the design criteria for safety, ergonomic, environmental, financial, ethical, and socio-political impact. Periodic oral and status reports. Culminates in a comprehensive written report and oral presentation.

**Prerequisite(s):** CPE majors: ECE 340, 431, 444.

ELE majors: ECE 340, 431L; (ECE 401 or 415).

**ECE 440** PHYSICAL ELECTRONICS

Introduction to wave mechanics, electron ballistics, theory of metals and semiconductors, electron emission, space charge flow, and modern electron devices.

**Prerequisite(s):** MTH 219; PHY 232.

**ECE 441** INTEGRATED CIRCUIT ELECTRONICS

Integrated circuit design, construction and verification including the study of biasing, multistage differential and analog power amplification, and computer
assisted design tools for "on-chip" design and layout.

**Prerequisite(s):** ECE 302.

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**ECE 442  ENGINEERING ELECTROMAGNETICS**

3

Processing Maxwell's equations and applying the predictions to the analysis and design of engineering systems that make use of electromagnetic energy from ELF through optical frequencies. Topics include propagation, radiation, interactions with matter, guided waves, and antenna fundamentals.

**Prerequisite(s):** ECE 333.

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**ECE 443  INTRODUCTION TO ELECTRO-OPTICS**

3

Introductory overview of electro-optics starting with Maxwell's equations and leading to lasers, holography, and other timely applications.

**Prerequisite(s):** ECE 332.

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**ECE 444  ADVANCED DIGITAL DESIGN**

3

Systems approach to digital design including: structured top-down development process using simple and complex logic modules from various logic families; practical aspects of the design, construction, and verification of digital subsystems; application of microcomputer and/or controller as a flexible logic device; real-time embedded systems design; and the use of HDL tools and simulation.

**Prerequisite(s):** ECE 314.

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**ECE 445  SIGNAL PROCESSING**

3

Study of signal conditioning, digital signal processing, and data processing. Topics include transducers, high gain amplifier design, digital filtering, and spectrum estimation. Specialized application determined by instructor.

**Prerequisite(s):** ECE 334.

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**ECE 446  MICROELECTRONIC SYSTEMS DESIGN**

3

Basic integrated circuit design concepts, system layout, application of design methodology, the fabrication process, manufacturing limitations of the design process, and CAD/CAE utilization to realize the design process.

**Prerequisite(s):** ECE 302.

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**ECE 447  DIGITAL CONTROL SYSTEMS**

3

Analysis and synthesis of feedback control systems including digital compensators. Topics include performance and stability analysis, regulator and servomechanism design using time and frequency domain methods, and digital implementation case studies.

**Prerequisite(s):** ECE 415; (ECE 334 or equivalent).

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**ECE 448  FIBER OPTIC COMMUNICATIONS**

3

General light guidance principles; ray optics; dispersion; single mode, multimode, and graded index fibers; basic laser and LED source principles; photodetectors; error probability in digital optical systems; rise time analysis; loss budget analysis; local area networks and long haul communication links.

**Prerequisite(s):** ECE 333.

**Corequisite(s):** ECE 401.

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**ECE 449  COMPUTER SYSTEMS ENGINEERING**

3

An introduction to advanced computer architecture and computer systems design. Topics include: exploration of principle architecture features of modern computers, pipelining, memory hierarchy, I/O devices, interconnection networks, introduction to parallel and multiprocessor systems, and the use of hardware description languages (HDLs) in system implementation.

**Prerequisite(s):** ECE 444; (CPS 346 or permission of instructor).

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**ECE 450L  PROJECTS LABORATORY**

1 - 3

Project-oriented laboratory applying engineering skills in the design, development, and demonstration of electrical and electronic systems.

**Prerequisite(s):** Permission of project advisor.

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**ECE 499  SPECIAL PROBLEMS IN ELECTRICAL AND COMPUTER ENGINEERING**

1 - 6

Particular assignments to be arranged and approved by the department chairperson.
School of Engineering
Engineering Technology (Collapse Description)

The School of Engineering also offers a Bachelor of Science in Engineering Technology. The programs in which the degree is offered are computer engineering technology, electronic engineering technology, industrial engineering technology, manufacturing engineering technology and mechanical engineering technology. The engineering technologist is usually involved in the design, performance evaluation, service and sales of products, equipment, and manufacturing systems or the management of these activities. The management of process operations and plant facilities are also important career paths.

The engineering technology programs provide: (1) specialized technical courses that emphasize rational thinking and the application of engineering and scientific principles to the practical solution of technological problems; (2) courses in applied mathematics and science sufficient to support the technical courses and to prepare the student for future growth; and (3) education to prepare students to communicate intelligently and to take places in society as responsible, humane, complete professionals.

The University of Dayton engineering technology programs prepare graduates who:

- are competent and productive in the practice of both the technical and communication aspects of their profession;
- demonstrate ethical and professional standards of conduct
- exhibit leadership qualities as appropriate for the practice of their profession;
- are involved in service activities that benefit their profession and their community; and
- are engaged in continuing professional development.

Faculty
Scott Segalewitz, Chairperson of the Department of Engineering Technology

Sub-Categories / Concentrations / Focus Areas
Electronic and Computer Engineering Technology
Industrial Engineering Technology
Manufacturing Engineering Technology
Mechanical Engineering Technology

Courses (Collapse All Courses)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tr>
<td>ECT 110</td>
<td>ELECTRICAL CIRCUITS I</td>
<td>3</td>
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<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: current, voltage, resistance, power, series and parallel circuits, capacitance, magnetic circuits, and inductance.</td>
<td></td>
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<tr>
<td>ECT 120</td>
<td>ELECTRICAL CIRCUITS II</td>
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<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: reactance, impedance, phase, circuit analysis, power factor, resonance, filters, transformers, and polyphase circuits. Circuit calculations using vectors and complex algebra. Prerequisite(s): ECT 110.</td>
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<tr>
<td>ECT 120L</td>
<td>ELECTRICAL CIRCUITS LABORATORY</td>
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<tr>
<td></td>
<td>Experiments in basic DC and AC circuits to accompany ECT 120. Three laboratory hours a week. Prerequisite(s): ECT 110.</td>
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<tr>
<td>ECT 206</td>
<td>ELECTRON DEVICES I</td>
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<tr>
<td></td>
<td>Fundamentals of semiconductor diodes, transistors (bipolar and field effect), amplifiers, biasing and small signal analysis. Prerequisite(s): ECT 120.</td>
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</table>
ECT 206L ELECTRON DEVICES I LABORATORY
To accompany ECT 206. Three hours of laboratory a week.

ECT 208 ELECTRONIC INSTRUMENTATION
Study of modern cathode ray oscilloscopes and other instrumentation
including control and transfer of data using a bus system.

ECT 224 DIGITAL COMPUTER FUNDAMENTALS
Fundamental theory and techniques of electronic data processing to include
binary arithmetic, switching theory (Boolean algebra), and basic circuitry
(gates, adders, registers, and memory).
Prerequisite(s): ECT 110.

ECT 224L DIGITAL COMPUTER FUNDAMENTALS LABORATORY
To accompany ECT 224. Three hours of laboratory a week.

ECT 306 ELECTRON DEVICES II
Fundamentals of integrated circuits, operational amplifiers, transistors,
photoelectric devices, silicon-controlled rectifiers, and their associated
circuits.
Prerequisite(s): ECT 206.

ECT 306L ELECTRON DEVICES II LABORATORY
To accompany ECT 306. Three hours of laboratory a week.

ECT 328 ELECTRONIC COMMUNICATIONS
Study of communication circuits including amplifiers, oscillators, modulators,
demodulators, antennas, waveguides, and microwave devices.
Prerequisite(s): ECT 306.

ECT 328L ELECTRONIC COMMUNICATIONS LABORATORY
To accompany ECT 328. Three hours of laboratory a week.

ECT 357 MICROPROCESSORS I
Study of microprocessor architecture, hardware, software, applications, and
development tools.
Prerequisite(s): ECT 224.
Corequisite(s): ECT 357L.

ECT 357L MICROPROCESSORS I LABORATORY
To accompany ECT 357. Emphasis on memory design, I/O design, and
software development. Three hours of laboratory a week.

ECT 358 MICROPROCESSORS II
Advanced microprocessors study including development tools and software
with regards to interfacing equipment in applications.
Prerequisite(s): ECT 357, 361.
Corequisite(s): ECT 358L.

ECT 358L MICROPROCESSORS II LABORATORY
To accompany ECT 358. Emphasis on microcomputer programming. Three
hours of laboratory a week.
Prerequisite(s): ECT 357.

ECT 361 PROGRAMMING STRUCTURES
The study of programming language concepts. Emphasis on the C language
and its application to microcomputer hardware and software development.
Prerequisite(s): SET 153L.

ECT 362 CONCEPTS AND APPLICATIONS OF COMPUTER OPERATING
SYSTEMS
Introduction to the fundamentals and applications of computer operating
systems and the interaction of hardware and software. Operating systems
for large-scale, mini-, and microcomputers introduced through case studies.
Prerequisite(s): ECT 357, 361.

ECT 400 SELECTED TOPICS

Investigation and discussion of current technical topics in electronic and computer engineering technology. May be taken more than once.

**Prerequisite(s):** Permission of department chairperson.

ECT 408 DATA ACQUISITION AND MEASUREMENTS 2
Measurement and evaluation of the characteristics of engineering materials, structural mechanics, electromechanical systems, and physical systems. Emphasis on data acquisition, signal conditioning and manipulation, and virtual instrumentation.

**Prerequisite(s):** ECT 120L; ENG 102; (ECT 361 or MCT 221).

ECT 450 MICROELECTRONICS 3
Study of the principles, design techniques, and fabrication processes utilized in the construction of integrated circuits and circuit boards. Use of electronic computer aided design software to assist in design, layout, simulation, and evaluation of projects.

**Prerequisite(s):** ECT 206.

ECT 451 ADVANCED INSTRUMENTATION 3
Advanced study of microcomputer controlled sensors and actuators in a variety of applications.

**Prerequisite(s):** ECT 208.

ECT 452 FEEDBACK CONTROLS 3
Study of principles of control including Nyquist criteria, Bode plots, PID loops, fuzzy logic, and artificial neural networks. Laplace transform analysis is utilized.

**Prerequisite(s):** ECT 306.

ECT 459 MICROPROCESSOR SYSTEMS DESIGN 3
Study of complete mechatronic designs with an emphasis on development systems, operating system integration, interfacing, and control strategies

**Prerequisite(s):** ECT 357, 358.

ECT 460 ADVANCED MICROPROCESSOR SYSTEMS 3
Study of advanced micro-router families and their applications to systems, including single and multi-router design.

**Prerequisite(s):** ECT 357.

ECT 462 TELECOMMUNICATIONS TECHNOLOGY 3
Study of communication methods and protocols. Applications to networks, satellite communication, phone systems, fiber optics, modems, and other data transmission.

**Prerequisite(s):** ECT 357.

ECT 464 PROGRAMMABLE LOGIC CONTROLLERS 3
Study of Programmable Logic Controllers (PLC's) and their applications in manufacturing. Topics include PLC architecture, programming, program documentation, system monitoring, automated manufacturing systems, and operator interfacing techniques.

**Prerequisite(s):** MFG 431.

ECT 465 DIGITAL DATA COMMUNICATIONS 3
Study of digital communication protocols and methods. A special emphasis is placed on networks.

**Prerequisite(s):** ECT 357 or equivalent.

ECT 466 MICROCOMPUTER ARCHITECTURE 3
To develop an understanding of the basic hardware architecture of industry standard microcomputers including CPUs, standard busses, memory, mass storage devices, Systems-on-a-Chip and their implementation, I/O devices, and network interfaces. Study of architecture of recent microprocessors.

**Prerequisite(s):** ECT 357 or equivalent.

ECT 490 SENIOR PROJECT 2
The design, construction and presentation of an original project. The project may be individual or part of an interdisciplinary engineering technology team project. Written and oral reports.

**Prerequisite(s):** CMM 110, (CMM 111 or 112); ECT 408, 464; IET 323; MTH 138; senior status.
IET 230 WORK MEASUREMENT
Fundamentals of work simplification and motion economy using the techniques of time-and-motion study. Setting of labor standards using the techniques of stop watch, pre-determined time, standard data, and work sampling.
Prerequisite(s): MTH 137.
Corequisite(s): IET 230L; SET 153L.

IET 230L WORK MEASUREMENT LABORATORY
The application of real-world time-and-motion-study techniques such as flow process, man-machine, and gozinta charts. Calculations for time standards, production efficiency, line balance, cost reduction, manpower, and equipment. A written and oral report on a team project. Three hours of laboratory each week
Prerequisite(s): MTH 137.
Corequisite(s): IET 230L; SET 153L.

IET 308 PRODUCTION MANAGEMENT METHODS
Study of the principles and current practices of optimizing production using Lean Manufacturing concepts. Just-in-time, Kaizen, set-up reduction, pull systems, focused factories, standard operations, total productive maintenance, and defect-free manufacturing.

IET 316 QUANTITATIVE METHODS IN INDUSTRIAL ENGINEERING TECHNOLOGY
Introduction of the mathematical techniques used to support decision making and managerial analysis. Probability theory, decision theory, linear programming, and queuing theory
Prerequisite(s): MTH 207; SET 153L.

IET 317 INDUSTRIAL ECONOMIC ANALYSIS
Comparison of manufacturing or service industry projects and investments based on their economic value. Quantification of costs and benefits; analysis using present worth, annual worth, and rate of return methods. Study of simple and compound interest
Prerequisite(s): MTH 137; SET 153L.

IET 318 STATISTICAL PROCESS CONTROL
Statistics and probability theory applied to produce control charts (x-bar, R, s, p, u, and c) to monitor processes. Interpretation and application of these charts. Problem solving techniques, pareto analysis, and modern quality management techniques
Prerequisite(s): MTH 207; SET 153L.

IET 319 QUALITY IMPROVEMENT METHODS
Study of problem-solving methodologies and techniques. Team development. Students will learn to use Pareto diagrams, force field analysis, cause and effect diagrams, process mapping, and other problem-solving tools. Quality costs, product liability, and ethics are also covered
Prerequisite(s): IET 316; SET 153L.

IET 320 QUALITY ASSURANCE TECHNIQUES
Students will be exposed to a variety of current quality assurance topics that companies use to improve quality, increase productivity, and reduce costs. Topics include: total preventive maintenance, quality function deployment, reliability engineering, design of experiments, and sample size selection
Prerequisite(s): IET 318; MTH 207; SET 153L.

IET 321 QUALITY MANAGEMENT
Provides students with an understanding of managing a total quality environment to improve quality, increase productivity and reduce costs. An introduction to Deming, Juran, and others. Total Quality Management implementation strategies, requirements of ISO 9000, QS 9000, and the Malcolm Baldrige award will be covered
Prerequisite(s): IET 318; MTH 207; SET 153L.

IET 322 HUMAN FACTORS
Methods of improving the interaction of humans with their physical work environment. Study of human characteristics to determine the best designs for tasks, products, work stations, and other environmental features. Written and oral projects.
Prerequisite(s): Junior or senior status.
IET 323  PROJECT MANAGEMENT
Study of the structure, techniques, and application of project management including project proposals, project plans, decision making, styles of management, and communications. Semester team project with written and oral presentations.
Prerequisite(s): SET 153L.

IET 332  FACILITIES LAYOUT
Design of facilities for the most efficient flow of raw materials, work-in-process, and completed stock through a work place. Facilities layout, material handling, and warehousing in relation to trends toward reduced inventory, smaller lot sizes, and just-in-time.
Prerequisite(s): IET 230, 230L; MCT 110L.

IET 400  SELECTED TOPICS
A self-paced research course. Preparation of a documented written research project on an engineering technology subject. May not be taken more than once. Prerequisites: Junior or senior status; permission of program director
Prerequisite(s): Junior or senior status; permission of department chairperson.

IET 415  MANAGEMENT OF TECHNICAL ORGANIZATIONS
Study of the structure of industrial and service organizations; study of the duties and responsibilities of a manager or supervisor in a technical organization in developing an effective project or production team. Study of labor administration; labor legislation, current labor practices and international management.

IET 418  COST ESTIMATING
Study of the fundamentals of cost estimating of labor, material, and overhead for products, projects, operations, and systems. The concepts of internal and external cost estimating, types of costs, ethics, budgets, and profit. Semester team and individual projects, written and oral
Prerequisite(s): MTH 137; SET 153L.

IET 420  INDUSTRIAL AND ENVIRONMENTAL SAFETY
Application of safety techniques and principles to identify and correct unsafe situations and practices. Study of system safety, failure modes and effects analysis, fault tree analysis, preliminary hazard analysis, hazardous materials and practices, OSHA, health and personal protection

IET 423  THE IET IN SERVICE ORGANIZATIONS
Case studies, articles, guest speakers, and projects to provide insight into how industrial engineering technology skills and training can be applied to service industries including hospitals, banks, and eating and retailing establishments
Prerequisite(s): IET junior status.

IET 425  ELEMENTS OF COST CONTROL
Survey of the methods of breakdown and cost analysis of labor, material, and overhead used in manufacturing and service organizations. Basic financial and cost accounting including balance sheets, income statements, change of financial condition, ratio analysis, and Activity-Based Costing.
Prerequisite(s): MTH 137; SET 153L.

IET 490  SENIOR PROJECT
Applications of IET principles to a real world project using student teams for analysis and productivity improvement. Students will manage a project, applying planning, scheduling, monitoring, and control techniques. Oral and written project proposals, status updates, and final reports presented by teams of students to the management of the sponsoring organizations
Prerequisite(s): CMM 110, 111/112; IET 308, 317, 323, 332; MTH 138; senior status.

MCT 110L  TECHNICAL DRAWING AND CAD
Technical sketching and shape description, orthographic projection theory, multi-view drawings, necessary views, sectional views, working and shop drawings, dimensioning practices, tolerancing, thread and fastener representation and nomenclature, assembly and detail drawings. Six hours
of laboratory a week using instruments and commercial computer-aided design (CAD) software.

MCT 111L INTRODUCTION TO DESIGN
Advanced topics of Computer Aided Design using three-dimensional, parametric, solid modeling software. Laboratory assignments involving the CAD software are completed through a series of individual and team design projects, introduction to design requirements, conceptualization, and design decisions. Computer drafting topics such as ANSI Y 14.5M-1994 geometric dimensioning and tolerancing standards, weld symbols, machining and surface finish symbols. Blueprint reading.
Prerequisite(s): MCT 110L.

MCT 220 STATIC AND DYNAMICS
Study of forces on bodies at rest and in motion using Newton's three laws of motion. Vectors, force systems, components, reactions, resultants, free body diagrams, equilibrium, centroids, moment of inertia, kinetics, and kinematics.
Prerequisite(s): SET 153L.
Corequisite(s): MTH 137.

MCT 221 STRENGTH OF MATERIALS
Analysis and design of load-carrying members, considering stress, strain, and deflection. Study of direct tension, compression, and shear; torsion; shear and moment diagrams; bending; combined stress; analysis of columns; pressure vessels.
Prerequisite(s): MCT 220; MFG 204, 204L; MTH 137; SET 153L.

MCT 231 FLUID MECHANICS
Fluid properties, fluid statics including manometry, submerged surfaces, buoyancy and stability of floating bodies. The principles of fluid flow including Bernoulli's and energy equations, energy losses, and pump power. Analysis and design of pipe line systems and open channels; pump selection.
Prerequisite(s): MCT 220; MFG 204, 204L; MTH 137; SET 153L.

MCT 313 INDUSTRIAL MECHANISMS
Design and analysis of linkages and cams. Graphical solutions to kinematics problems including the concepts of instantaneous motion and relative motion. Development and analysis of motion diagrams. Study of geometric features of gears and gear transmission systems.
Prerequisite(s): MCT 110L, 220; MTH 137; SET 153L.

MCT 317 MACHINE DYNAMICS
Principles of applied engineering mechanics as they relate to machines; static force analysis in both 2 and 3 dimensional systems, kinetics of machine components by the methods of force-mass-acceleration, work-energy, and impulse-momentum; machine balancing; introduction to mechanical vibrations.
Prerequisite(s): MCT 313, MTH 250.

MCT 330 DESIGN OF MACHINE ELEMENTS
Analytical design techniques used to evaluate machine elements; stress analysis, working stress, failure theories, fatigue failure; design methods for spur gears, shafts, keys and couplings, roller and journal bearings, and springs. Original design project.
Prerequisite(s): MCT 110L, 221; SET 153L.

MCT 333L MECHANICAL MEASUREMENTS
Laboratory evaluations of metal fatigue, stress, strain, noise, vibration, buckling, and nondestructive examination. Utilization of power supplies, transducers, conditioners, amplifiers, recorders; computer data acquisition. Log books and written final reports.

MCT 336 FLUID POWER
Study of hydraulic and pneumatic fluid power components and systems used in industrial, mobile, and aerospace applications; standard symbols in circuit design; circuit analysis; specification for pumps, valves, cylinders, and circuits; hydraulic fluids; filtration; electric motors; system efficiencies; proportional control and electrohydraulic servo control systems; seals; fluid conductors; pneumatic components and systems. Library research project.
**Prerequisite(s):** MCT 221.

**Corequisite(s):** MCT 336L.

**MCT 336L FLUID POWER LABORATORY**

To accompany MCT 336. Evaluation of fluid power components: pressure, flow, RPM, sound level, current, voltage, power, torque, and time. Graphical design, computational analysis, assembly, and testing of typical circuits and systems. Testing of hydraulic fluids for viscosity, pour point, flash and fire point, specific gravity. Three hours of laboratory a week.

**MCT 342 THERMODYNAMICS**

Energy analysis of engineering systems using the concepts and laws of thermodynamics. The principle of the mechanical equivalent of heat, behavior of pure substances, use of thermodynamic property tables, and study of gas mixtures. Application of the Carnot cycle to both heat engines and reversed heat engines.

**Prerequisite(s):** MCT 231; MTH 138; SET 153L.

**MCT 400 SELECTED MECHANICAL TOPICS**

Investigations and discussion of current technical topics in mechanical engineering technology. Research report. May be taken more than once.

**Prerequisite(s):** Permission of the department chairperson.

**MCT 423 PRODUCT DEVELOPMENT**

Synthesis of mechanical devices and systems. Emphasis on the integration of various machine elements into a single unit. Activities include design, scheduling, budgeting, purchasing, fabrication, assembly and performance testing of an original team project.

**Prerequisite(s):** MCT 330.

**MCT 430 DESIGN OF FLUID POWER SYSTEMS**

Energy efficiency; pressure drop determinations, variable volume pressure-compensated pumps, accumulators, proportional and electrohydraulic valves, cylinder design, hydraulic motor selection; circuit design, open and closed loop systems, power unit design; sizing of electric motors; use of industrial data and National Fluid Power Assn.-JIC design standards. Individual design project.

**Prerequisite(s):** MCT 336.

**MCT 432 HEAT POWER**

Applications of the principles of thermodynamic cycles. Analysis of energy transfer systems such as internal combustion and gas turbine engines. Power generation through steam cycles including reheat and regenerative cycles. Reversed heat engine cycles and vapor compression cycles used in heating and cooling.

**Prerequisite(s):** MCT 342; SET 153L.

**MCT 438 HEAT TRANSFER**

The principles of conduction, convection, and thermal radiation energy transfer. Conduction through series and parallel walls, pipes, and containers. Forced and free convection through films, thermal radiation of energy between surfaces, and the overall transfer of heat.

**Prerequisite(s):** MCT 231; SET 153L.

**MCT 440 APPLIED VIBRATIONS**

Free and forced vibration of single degree of freedom systems with and without damping. Industrial applications including reciprocating and rotating machinery, balancing, isolation, and noise reduction. Demonstrations of vibration sensors and instrumentation.

**Prerequisite(s):** MCT 317; SET 153L.

**MCT 445 EXPERIMENTAL MECHANICS**

The selection, application, and use of strain gages and strain gage rosettes. Transformation of stress and strain. Advanced mechanics of materials topics with empirical verification of theoretical predictions.

**Prerequisite(s):** MCT 221.

**MCT 445L EXPERIMENTAL MECHANICS LABORATORY**

Installation of strain gage rosettes. Experiments to determine the state of strain and stress in structures using strain gauges, photoelasticity, and brittle
coatings. Vibration measurement using strain gauges, accelerometers, and motion transducers. Written and oral reports.

MCT 446  APPLIED FINITE ELEMENT MODELING
Introduction to the fundamentals of structural finite element modeling. Geometry creation, element types, material specification, problem solution and results postprocessing. A focus is placed on modeling techniques using commercially available software. Prerequisite(s): MCT 221; SET 153L.

MGT 446  APPLIED FINITE ELEMENT MODELING
Introduction to the fundamentals of structural finite element modeling. Geometry creation, element types, material specification, problem solution and results postprocessing. A focus is placed on modeling techniques using commercially available software. Prerequisite(s): MCT 221; SET 153L.

MGT 490  MECHANICAL ENGINEERING TECHNOLOGY SENIOR PROJECT
Bringing together analytical and graphical techniques from previous courses to accomplish the design of a complete mechanism, machine, or mechanical system. Conceptual, preliminary, and final design. Prototyping and evaluation of an original team project. Written and oral reports. Prerequisite(s): MCT 221; SET 153L; MGT 110, 111/112; IET 323; MCT 317, 330; MTH 138; senior status.

MFG 108L  MANUFACTURING PROCESSES LABORATORY
Application of metal-cutting theory using single- and multiple-point cutting tools, basic metal removal process of toolroom and production machines. Experience on conventional milling machines, shapers, lathes, surface grinders, and drill presses. Three hours of laboratory a week.

MFG 204  MATERIALS AND PROCESSES
Chemical and physical properties of metals, ceramics, and polymers; casting processes; powdered metallurgy; metal forming; plastics processes. Oral and written presentation of a team case study. Prerequisite(s): SET 153L. Corequisite(s): MFG 204L.

MFG 204L  MATERIALS AND PROCESSES LABORATORY
Testing of materials for tensile strength, impact and hardness properties, cooling curves and equilibrium diagram development, heat treating and hardenability curve determination, cold forming, plastics materials processing, micro polishing and metallography; visits to local industries. Three hours of laboratory a week. Prerequisite(s): SET 153L. Corequisite(s): MFG 204L.

MFG 206L  DIMENSIONAL METROLOGY
Theory and practice of precision measurement including the surface plate, angle and sine plates; surface texture and roundness; optical microscope and profile projector; mechanical and electronic gages; co-ordinate measuring machine; length standards and height gages; fixed and functional gages; sources of measurement error; introduction to Geometric Dimensioning and Tolerancing. Three hours of laboratory a week. Prerequisite(s): MCT 110L; MTH 137.

MFG 240  MANUFACTURING DESIGN
Manufacturing planning; advanced Geometric Dimensioning and Tolerancing using ANSI 14.5m-1994; paper gaging; process planning; advanced cutting tools; workholders; power presses-blanking, forming, draw dies, fine blanking; group technology, gage, jig and fixture design. Prerequisite(s): MCT 220, 313; SET 153L.

MFG 400  SELECTED MANUFACTURING TOPICS
Investigation and discussion of current topics in manufacturing engineering technology. May be taken more than once. Prerequisite(s): Permission of the department chairperson.

MFG 424  ROBOTICS
Study of robotics including history, robot geometry, cost justification, end-effector (types, use, and design), sensors, and programming. Application of robots in industries. Robot programming and operation projects and end-effector design projects. Prerequisite(s): MCT 220, 313; SET 153L.

MFG 426  AUTOMATED MANUFACTURING SYSTEMS AND CIM
CIM systems and interrelationships; group technology, computer-aided process planning, expert systems, local area networks, automated flow
lines, data collection, and material handling. Team project to plan, design, and make an oral presentation of a proposal for a complete manufacturing cell.  
Prerequisite(s): ECT 110; SET 153L.

MFG 431 CONTROLS FOR INDUSTRIAL AUTOMATION  
Topics include: fundamentals of digital logic, pneumatic power, electromechanical sensors and actuators, pneumatic and electrical control circuit analysis and design, industry safety and design standards, concepts of mechatronics, programmable logic controllers, and networking communications. Includes lab experiences.  
Prerequisite(s): ECT 120; SET 153L.

MFG 432 MATERIALS AND PROCESSES-PLASTICS AND COMPOSITES  
Introduction to the more common plastics and composite engineering materials and their properties. Study of processes including extrusion, injection molding, blow molding, compression and transfer molding, and forming. Topics on part and tooling design.  
Prerequisite(s): CHM 123; MFG 204.

MFG 434 COMPUTER NUMERICAL CONTROL  
CNC programming of turning center and machining center; application of CAM software to design CNC programs, edit programs, and display tool paths. Parametric part programming concepts to produce complex surfaces. Machine set-up and operation. Design, programming, and production of products in extensive CNC lab facility.  
Prerequisite(s): MCT 110L; MFG 108L; MTH 138; SET 153L.

MFG 435 ADVANCED NUMERICAL CONTROL  
Instruction in the programming of complex, multi-axis CNC machines. Extended parametric programming. Programming language techniques.  
Prerequisite(s): MFG 434.

MFG 490 SENIOR PROJECT  
Study and research in a specific area that integrates major elements from previous design and manufacturing process courses, culminating in individual and/or group projects, technical reports, and presentations.  
Prerequisite(s): CMM 110, 111/112; IET 323; MFG 108L, 240, 431; MTH 138; senior status.

SET 100 ENGINEERING TECHNOLOGY FIRST YEAR SEMINAR  
A seminar for all engineering technology majors. Introduction to the University of Dayton, the School of Engineering, the Department of Engineering Technology, engineering technology programs and careers. Emphasizes professional ethics, critical thinking and communications, and team dynamics. Academic policies, academic planning, registration procedures, counseling and career placement services.

SET 101 ENRICHMENT WORKSHOP  
A workshop structured to provide collaborative learning for first-year Engineering Technology students. Work will focus on math, chemistry and other first-year courses. Required of all first-year engineering technology students both semesters.

SET 153L TECHNICAL COMPUTATION LABORATORY  
Introduction to applications and use of computers for engineers with concentration on spreadsheets, electronic communications, and object oriented programming using Visual Basic.

SET 198 RESEARCH AND INNOVATION LABORATORY  
Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.  
Prerequisite(s): Permission of department chairperson.

SET 298 RESEARCH AND INNOVATION LABORATORY  

Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered. 

Prerequisite(s): Permission of department chairperson.

SET 398 RESEARCH AND INNOVATION LABORATORY 1 - 6
Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered. 

Prerequisite(s): Permission of department chairperson.

SET 400 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY 1 - 4
Investigation and discussion of current topics in engineering technology. May be taken more than once.

Prerequisite(s): Permission of department chairperson.

SET 498 RESEARCH AND INNOVATION LABORATORY 1 - 6
Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered. 

Prerequisite(s): Permission of department chairperson.

SET 499 SEMINAR 1
Career planning for engineering technology majors. The job search process, résumé preparation, the job interview, professional development. Required of all engineering technology majors in the junior or senior year.
School of Engineering
Engineering Technology

You are currently viewing Electronic and Computer Engineering Technology, an academic area in Engineering Technology. To view academic information for Engineering Technology, click here.

(ECT) Electronic and Computer Engineering Technology (Collapse Description)

The Electronic (EET) and Computer (CET) Engineering Technology Programs prepare students for careers in the electronics and computer fields respectively. The EET curriculum, while including a strong emphasis on computers, centers on applied engineering topics in circuit analysis, electronic design, communications, digital circuits, microprocessors and instrumentation. The CET curriculum targets the field of electronics towards computer hardware with a strong emphasis on the integration of hardware and software. The graduate of both programs is prepared to work in industry at a variety of tasks including analog and digital design, microprocessor hardware and software applications, electronic controls, automation, engineering sales and support, product design and development, and electronic communications. The curricula provide the strong foundation in the basic principles necessary to support any future career studies or development as dictated by changing technology or career roles.

Faculty
Scott Segalewitz, Chairperson of Department of Engineering Technology
James Globig, Program Coordinator
Professors Emeriti: Farren, Hanneman, Hazen, Rooney
Professor: Segalewitz
Associate Professor: Globig
Assistant Professor: Patterson

Majors/Minors (Collapse All)

Bachelor of Science with a major in Computer Engineering Technology (CET)

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<td>MTH 137</td>
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¹: 198 is a laboratory course.

Explore by Department / Program:
- Accounting
- American Studies
- Biology
- Business Interdisciplinary Studies

Explore by Major / Minor:
- Accounting (ACC)
- Adolescence to Young Adult Education (EYAE)
- Africana Studies (AFS)
- American Studies (AMS)

Explore by Courses:
- Accounting (ACC)
- American Studies (AMS)
- Anthropology (ANT)
- Art Education (VAE)
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<td>MTH 138</td>
<td>CALCULUS I WITH REVIEW</td>
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<td>REL 103</td>
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**Sophomore-Year**

**First-Term**

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**Second-Term**

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<td>ECT 357-357L</td>
<td>MICROPROCESSORS I (ECT 357)</td>
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<td>ECT 361</td>
<td>PROGRAMMING STRUCTURES</td>
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<td>IET 323</td>
<td>PROJECT MANAGEMENT</td>
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<td>MFG 431</td>
<td>CONTROLS FOR INDUSTRIAL AUTOMATION</td>
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**Junior-Year**

**First-Term**

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<td>MCT 220</td>
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<td>PHY 201-201L</td>
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<td>CONCEPTS AND APPLICATIONS OF COMPUTER OPERATING SYSTEMS</td>
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<td>ECT 459</td>
<td>MICROPROCESSOR SYSTEMS DESIGN</td>
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<td>ECT 466</td>
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**Senior-Year**

**First-Term**

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<td>ECT 464</td>
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Two composition courses must be taken during the course of the first year, one per semester. If ENG 101 is taken during the first semester, ENG 102 must be taken during the second semester. If ENG 114 is taken during the first semester, ENG 198 must be taken during the second semester. Likewise, if ENG 198 is taken during the first semester, ENG 114 must be taken during the second semester.

Select from list approved by the Department of Engineering Technology.

Bachelor of Science with a major in Electronic Engineering Technology (EET)

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<tr>
<td>IET 323 PROJECT MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MFG 431 CONTROLS FOR INDUSTRIAL AUTOMATION</td>
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</tbody>
</table>
### Junior-Year

**First-Term**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECT 328-328L</td>
<td>ELECTRONIC COMMUNICATIONS (ECT 328) ELECTRONIC COMMUNICATIONS LABORATORY (ECT 328L)</td>
<td>4</td>
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<tr>
<td>ECT 358-358L</td>
<td>MICROPROCESSORS II (ECT 358) MICROPROCESSORS II LABORATORY (ECT 358L)</td>
<td>4</td>
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<tr>
<td>ECT 464</td>
<td>PROGRAMMABLE LOGIC CONTROLLERS</td>
<td>3</td>
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<tr>
<td>PHY 201-201L</td>
<td>GENERAL PHYSICS (PHY 201) GENERAL PHYSICS LABORATORY (PHY 201L)</td>
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**Second-Term**

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CHM 123-123L</td>
<td>GENERAL CHEMISTRY (CHM 123) GENERAL CHEMISTRY LABORATORY (CHM 123L)</td>
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<tr>
<td>MCT 220</td>
<td>STATICS AND DYNAMICS</td>
<td>3</td>
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<tr>
<td>MFG 426</td>
<td>AUTOMATED MANUFACTURING SYSTEMS AND CIM</td>
<td>3</td>
</tr>
<tr>
<td>MTH 207</td>
<td>INTRODUCTION TO STATISTICS</td>
<td>3</td>
</tr>
<tr>
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<td>General Education Requirements</td>
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### Senior-Year

**First-Term**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ECT 408</td>
<td>DATA ACQUISITION AND MEASUREMENTS</td>
<td>2</td>
</tr>
<tr>
<td>SET 499</td>
<td>SEMINAR</td>
<td>1</td>
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<tr>
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<td>Technical electives</td>
<td>6</td>
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<tr>
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<td>General Education Requirements</td>
<td>6</td>
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</table>

**Second-Term**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECT 462</td>
<td>TELECOMMUNICATIONS TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>ECT 490</td>
<td>SENIOR PROJECT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Technical electives²</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>6</td>
</tr>
</tbody>
</table>

¹Two composition courses must be taken during the course of the first year, one per semester. If ENG 101 is taken during the first semester, ENG 102 must be taken during the second semester. If ENG 114 is taken during the first semester, ENG 198 must be taken during the second semester. Likewise, if ENG 198 is taken during the first semester, ENG 114 must be taken during the second semester.

²Select from list approved by the Department of Engineering Technology.

## Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ECT 110</td>
<td>ELECTRICAL CIRCUITS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: current, voltage, resistance, power, series and parallel circuits, capacitance, magnetic circuits, and inductance.</td>
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<tr>
<td>ECT 120</td>
<td>ELECTRICAL CIRCUITS II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: reactance, impedance, phase, circuit analysis, power factor, resonance, filters, transformers, and polyphase circuits. Circuit calculations using vectors and complex algebra. Prerequisite(s): ECT 110.</td>
<td></td>
</tr>
<tr>
<td>ECT 120L</td>
<td>ELECTRICAL CIRCUITS LABORATORY</td>
<td>1</td>
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<tr>
<td></td>
<td>Experiments in basic DC and AC circuits to accompany ECT 120. Three laboratory hours a week. Prerequisite(s): ECT 110.</td>
<td></td>
</tr>
<tr>
<td>ECT 206</td>
<td>ELECTRON DEVICES I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of semiconductor diodes, transistors (bipolar and field effect), amplifiers, biasing and small signal analysis. Prerequisite(s): ECT 120.</td>
<td></td>
</tr>
</tbody>
</table>
ECT 206L  ELECTRON DEVICES I LABORATORY
To accompany ECT 206. Three hours of laboratory a week.

ECT 208  ELECTRONIC INSTRUMENTATION
Study of modern cathode ray oscilloscopes and other instrumentation including control and transfer of data using a bus system.

ECT 224  DIGITAL COMPUTER FUNDAMENTALS
Fundamental theory and techniques of electronic data processing to include binary arithmetic, switching theory (Boolean algebra), and basic circuitry (gates, adders, registers, and memory).
Prerequisite(s): ECT 110.

ECT 224L  DIGITAL COMPUTER FUNDAMENTALS LABORATORY
To accompany ECT 224. Three hours of laboratory a week.

ECT 306  ELECTRON DEVICES II
Fundamentals of integrated circuits, operational amplifiers, transistors, photoelectric devices, silicon-controlled rectifiers, and their associated circuits.
Prerequisite(s): ECT 206.

ECT 306L  ELECTRON DEVICES II LABORATORY
To accompany ECT 306. Three hours of laboratory a week.

ECT 328  ELECTRONIC COMMUNICATIONS
Study of communication circuits including amplifiers, oscillators, modulators, demodulators, antennas, waveguides, and microwave devices.
Prerequisite(s): ECT 306.

ECT 328L  ELECTRONIC COMMUNICATIONS LABORATORY
To accompany ECT 328. Three hours of laboratory a week.

ECT 357  MICROPROCESSORS I
Study of microprocessor architecture, hardware, software, applications, and development tools.
Prerequisite(s): ECT 224.
Corequisite(s): ECT 357L.

ECT 357L  MICROPROCESSORS I LABORATORY
To accompany ECT 357. Emphasis on memory design, I/O design, and software development. Three hours of laboratory a week.

ECT 358  MICROPROCESSORS II
Advanced microprocessors study including development tools and software with regards to interfacing equipment in applications.
Prerequisite(s): ECT 357, 361.
Corequisite(s): ECT 358L.

ECT 358L  MICROPROCESSORS II LABORATORY
To accompany ECT 358. Emphasis on microcomputer programming. Three hours of laboratory a week.
Prerequisite(s): ECT 357.

ECT 361  PROGRAMMING STRUCTURES
The study of programming language concepts. Emphasis on the C language and its application to microcomputer hardware and software development.
Prerequisite(s): SET 153L.

ECT 362  CONCEPTS AND APPLICATIONS OF COMPUTER OPERATING SYSTEMS
Introduction to the fundamentals and applications of computer operating systems and the interaction of hardware and software. Operating systems for large-scale, mini-, and microcomputers introduced through case studies.
Prerequisite(s): ECT 357, 361.

ECT 400  SELECTED TOPICS
1-4
Investigation and discussion of current technical topics in electronic and computer engineering technology. May be taken more than once.

Prerequisite(s): Permission of department chairperson.

ECT 408 DATA ACQUISITION AND MEASUREMENTS
Measurement and evaluation of the characteristics of engineering materials, structural mechanics, electromechanical systems, and physical systems. Emphasis on data acquisition, signal conditioning and manipulation, and virtual instrumentation.
Prerequisite(s): ECT 120L; ENG 102; (ECT 361 or MCT 221).

ECT 450 MICROELECTRONICS
Study of the principles, design techniques, and fabrication processes utilized in the construction of integrated circuits and circuit boards. Use of electronic computer aided design software to assist in design, layout, simulation, and evaluation of projects.
Prerequisite(s): ECT 206.

ECT 451 ADVANCED INSTRUMENTATION
Advanced study of microcomputer controlled sensors and actuators in a variety of applications.
Prerequisite(s): ECT 208.

ECT 452 FEEDBACK CONTROLS
Study of principles of control including Nyquist criteria, Bode plots, PID loops, fuzzy logic, and artificial neural networks. Laplace transform analysis is utilized.
Prerequisite(s): ECT 306.

ECT 459 MICROPROCESSOR SYSTEMS DESIGN
Study of complete mechatronic designs with an emphasis on development systems, operating system integration, interfacing, and control strategies
Prerequisite(s): ECT 357, 358.

ECT 460 ADVANCED MICROPROCESSOR SYSTEMS
Study of advanced micro-processor families and their applications to systems, including single and multi-processor design.
Prerequisite(s): ECT 357.

ECT 462 TELECOMMUNICATIONS TECHNOLOGY
Study of communication methods and protocols. Applications to networks, satellite communication, phone systems, fiber optics, modems, and other data transmission.
Prerequisite(s): ECT 357.

ECT 464 PROGRAMMABLE LOGIC CONTROLLERS
Study of Programmable Logic Controllers (PLC's) and their applications in manufacturing. Topics include PLC architecture, programming, program documentation, system monitoring, automated manufacturing systems, and operator interfacing techniques.
Prerequisite(s): MFG 431.

ECT 465 DIGITAL DATA COMMUNICATIONS
Study of digital communication protocols and methods. A special emphasis is placed on networks.
Prerequisite(s): ECT 357 or equivalent.

ECT 466 MICROCOMPUTER ARCHITECTURE
To develop an understanding of the basic hardware architecture of industry standard microcomputers including CPUs, standard busses, memory, mass storage devices, Systems-on-a-Chip and their implementation, I/O devices, and network interfaces. Study of architecture of recent microprocessors.
Prerequisite(s): ECT 357 or equivalent.

ECT 490 SENIOR PROJECT
The design, construction and presentation of an original project. The project may be individual or part of an interdisciplinary engineering technology team project. Written and oral reports.
Prerequisite(s): CMM 110, (CMM 111 or 112); ECT 408, 464; IET 323; MTH 138; senior status.
(IET) Industrial Engineering Technology

The Industrial Engineering Technology Program has as its objective providing specialized education to prepare students for management and technical staff positions in manufacturing, and service organizations such as health care, banking, transportation, food service, and government. Graduates may be involved in the economic selection and location of equipment, the planning of work methods and expected output, quality assurance, facilities layout, and scheduling and controlling the flow of materials. The curriculum emphasizes courses in work measurement, production planning and control, human factors, safety, facilities layout, economic analysis, statistical process control, management of projects and technical organizations, cost estimating, cost analysis, and mathematical decision-making.

Faculty
Scott Segalewitz, Chairperson of the Department of Engineering Technology
Charlie Edmonson, Program Coordinator
Professors Emeriti: Courtright, McGraw
Professors: Summers, Untener
Associate Professor: Edmonson, Globig
Assistant Professor: Blust
Adjunct Professor: R. Reynolds

Majors/Minors
Major/Minor Name
Bachelor of Science with a major in Industrial Engineering Technology (IET)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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<tr>
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<tr>
<td>CMM 110</td>
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<tr>
<td>ENG 101 or 114</td>
<td>COLLEGE COMPOSITION I (ENG 101) 3</td>
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<tr>
<td>or 198</td>
<td>FRESHMAN WRITING SEMINAR (ENG 114) 3</td>
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<td>MCT 110L</td>
<td>ENGLISH SCHOLAR'S SEMINAR (ENG 198) 3</td>
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<tr>
<td>MTH 137</td>
<td>TECHNICAL DRAWING AND CAD 2</td>
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<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION 3</td>
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<td>SET 100</td>
<td>ENGINEERING TECHNOLOGY FIRST YEAR SEMINAR 1</td>
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<td>SET 101</td>
<td>ENRICHMENT WORKSHOP 0</td>
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<tr>
<td>SET 153L</td>
<td>TECHNICAL COMPUTATION LABORATORY 1</td>
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<td>ENG 102 or 114</td>
<td>COLLEGE COMPOSITION II (ENG 102) 3</td>
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<tr>
<td>or 198</td>
<td>FRESHMAN WRITING SEMINAR (ENG 114) 3</td>
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<td>MTH 137</td>
<td>ENGLISH SCHOLAR'S SEMINAR (ENG 198) 3</td>
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<td>IET 230-230L</td>
<td>THE WEST AND THE WORLD 3</td>
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<td>HST 103</td>
<td>WORK MEASUREMENT (IET 230) 4</td>
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<td>PHL 103</td>
<td>WORK MEASUREMENT LABORATORY (IET 230L) 4</td>
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<td>MTH 138</td>
<td>INTRODUCTION TO PHILOSOPHY 3</td>
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<td>ECT 110</td>
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<td>CMM 113</td>
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<td>SET 499</td>
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2 Select from list approved by the Department of Engineering Technology.
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<tr>
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<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>IET 230</td>
<td>WORK MEASUREMENT</td>
<td>3</td>
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<tr>
<td></td>
<td>Fundamentals of work simplification and motion economy using the techniques of time-and-motion study. Setting of labor standards using the techniques of stop watch, pre-determined time, standard data, and work sampling. <strong>Prerequisite(s):</strong> MTH 137. <strong>Corequisite(s):</strong> IET 230L; SET 153L.</td>
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<tr>
<td>IET 230L</td>
<td>WORK MEASUREMENT LABORATORY</td>
<td>1</td>
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<tr>
<td></td>
<td>The application of real-world time-and-motion-study techniques such as flow process, man-machine, and gozinta charts. Calculations for time standards, production efficiency, line balance, cost reduction, manpower, and equipment. A written and oral report on a team project. Three hours of laboratory each week <strong>Prerequisite(s):</strong> MTH 137. <strong>Corequisite(s):</strong> IET 230; SET 153L.</td>
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<tr>
<td>IET 308</td>
<td>PRODUCTION MANAGEMENT METHODS</td>
<td>3</td>
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<td>Study of the principles and current practices of optimizing production using Lean Manufacturing concepts. Just-in-time, Kaizen, set-up reduction, pull systems, focused factories, standard operations, total productive maintenance, and defect-free manufacturing.</td>
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<tr>
<td>IET 316</td>
<td>QUANTITATIVE METHODS IN INDUSTRIAL ENGINEERING TECHNOLOGY</td>
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<tr>
<td></td>
<td>Introduction of the mathematical techniques used to support decision making and managerial analysis. Probability theory, decision theory, linear programming, and queuing theory <strong>Prerequisite(s):</strong> MTH 207; SET 153L.</td>
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<tr>
<td>IET 317</td>
<td>INDUSTRIAL ECONOMIC ANALYSIS</td>
<td>3</td>
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<td></td>
<td>Comparison of manufacturing or service industry projects and investments based on their economic value. Quantification of costs and benefits; analysis using present worth, annual worth, and rate of return methods. Study of simple and compound interest <strong>Prerequisite(s):</strong> MTH 137; SET 153L.</td>
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<tr>
<td>IET 318</td>
<td>STATISTICAL PROCESS CONTROL</td>
<td>3</td>
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<td></td>
<td>Statistics and probability theory applied to produce control charts (x-bar, R, s, p, u, and c) to monitor processes. Interpretation and application of these charts. Problem solving techniques, pareto analysis, and modern quality management techniques <strong>Prerequisite(s):</strong> MTH 207; SET 153L.</td>
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<tr>
<td>IET 319</td>
<td>QUALITY IMPROVEMENT METHODS</td>
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<td></td>
<td>Study of problem-solving methodologies and techniques. Team development. Students will learn to use Pareto diagrams, force field analysis, cause and effect diagrams, process mapping, and other problem-solving tools. Quality costs, product liability, and ethics are also covered <strong>Prerequisite(s):</strong> IET 318; SET 153L.</td>
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<tr>
<td>IET 320</td>
<td>QUALITY ASSURANCE TECHNIQUES</td>
<td>3</td>
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<td></td>
<td>Students will be exposed to a variety of current quality assurance topics that companies use to improve quality, increase productivity, and reduce costs. Topics include: total preventive maintenance, quality function deployment, reliability engineering, design of experiments, and sample size selection <strong>Prerequisite(s):</strong> IET 318; MTH 207; SET 153L.</td>
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<tr>
<td>IET 321</td>
<td>QUALITY MANAGEMENT</td>
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<tr>
<td></td>
<td>Provides students with an understanding of managing a total quality environment to improve quality, increase productivity and reduce costs. An introduction to Deming, Juran, and others. Total Quality Management implementation strategies, requirements of ISO 9000, QS 9000, and the Malcolm Baldrige award will be covered <strong>Prerequisite(s):</strong> IET 318; MTH 207; SET 153L.</td>
<td></td>
</tr>
<tr>
<td>IET 322</td>
<td>HUMAN FACTORS</td>
<td>3</td>
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</tbody>
</table>
Methods of improving the interaction of humans with their physical work environment. Study of human characteristics to determine the best designs for tasks, products, work stations, and other environmental features. Written and oral projects.

Prerequisite(s): Junior or senior status.

IET 323 PROJECT MANAGEMENT 3
Study of the structure, techniques, and application of project management including project proposals, project plans, decision making, styles of management, and communications. Semester team project with written and oral presentations.

Prerequisite(s): SET 153L.

IET 332 FACILITIES LAYOUT 3
Design of facilities for the most efficient flow of raw materials, work-in-process, and completed stock through a work place. Facilities layout, material handling, and warehousing in relation to trends toward reduced inventory, smaller lot sizes, and just-in-time.

Prerequisite(s): IET 230, 230L; MCT 110L.

IET 400 SELECTED TOPICS 3
A self-paced research course. Preparation of a documented written research project on an engineering technology subject. May not be taken more than once. Prerequisites: Junior or senior status; permission of program director

Prerequisite(s): Junior or senior status; permission of department chairperson.

IET 415 MANAGEMENT OF TECHNICAL ORGANIZATIONS 3
Study of the structure of industrial and service organizations; study of the duties and responsibilities of a manager or supervisor in a technical organization in developing an effective project or production team. Study of labor administration; labor legislation, current labor practices and international management.

IET 418 COST ESTIMATING 3
Study of the fundamentals of cost estimating of labor, material, and overhead for products, projects, operations, and systems. The concepts of internal and external cost estimating, types of costs, ethics, budgets, and profit. Semester team and individual projects, written and oral

Prerequisite(s): MTH 137; SET 153L.

IET 420 INDUSTRIAL AND ENVIRONMENTAL SAFETY 3
Application of safety techniques and principles to identify and correct unsafe situations and practices. Study of system safety, failure modes and effects analysis, fault tree analysis, preliminary hazard analysis, hazardous materials and practices, OSHA, health and personal protection.

IET 423 THE IET IN SERVICE ORGANIZATIONS 3
Case studies, articles, guest speakers, and projects to provide insight into how industrial engineering technology skills and training can be applied to service industries including hospitals, banks, and eating and retailing establishments

Prerequisite(s): IET junior status.

IET 425 ELEMENTS OF COST CONTROL 3
Survey of the methods of breakdown and cost analysis of labor, material, and overhead used in manufacturing and service organizations. Basic financial and cost accounting including balance sheets, income statements, change of financial condition, ratio analysis, and Activity-Based Costing.

Prerequisite(s): MTH 137; SET 153L.

IET 490 SENIOR PROJECT 2
Applications of IET principles to a real world project using student teams for analysis and productivity improvement. Students will manage a project, applying planning, scheduling, monitoring, and control techniques. Oral and written project proposals, status updates, and final reports presented by teams of students to the management of the sponsoring organizations

Prerequisite(s): CMM 110, 111/112; IET 308, 317, 323, 332; MTH 138; senior status.
School of Engineering
Engineering Technology

You are currently viewing Manufacturing Engineering Technology, an academic area in Engineering Technology. To view academic information for Engineering Technology, click here.

(MFG) Manufacturing Engineering Technology (Collapse Description)
The Manufacturing Engineering Technology Program prepares graduates for professional careers in technical and management positions in a broad range of industries such as those producing automobiles or consumer goods; the metals, paper, or food process industries; the plastics, metal and wood parts fabricating industries; and those which produce manufacturing machinery. Career opportunities in manufacturing engineering include: facilities, manufacturing automation, and tooling design; plant, quality, and process capability engineering; manufacturing management, and technical sales.

The curriculum is highly interdisciplinary since the manufacturing professional must possess extensive technical skills and excellent humanistic skills in communications, computers, teamwork, information technology, globalism and multiculturalism. The technical courses emphasize engineering; materials and manufacturing processes; mechanical and fluid power automation; electronic controls; computer integrated manufacturing; manufacturing planning and control; extensive laboratory experiences; the technical sciences and applied mathematics from college algebra, probability, statistics, calculus, and linear programming. The curriculum contains strong components from the humanities, social sciences, and communications. The technical electives allow the student versatility in developing technical breadth or depth. The program is designed to prepare the graduates for challenging careers in manufacturing and serves as an excellent foundation for a variety of advanced degree options.

Faculty
Scott Segalewitz, Chairperson of the Department of Engineering Technology
Robert L. Wolff, Program Coordinator
Professor Emeritus: Simon
Professors: Summers, Wolff, Untener
Assistant Professors: Blust, Falkowski
Adjunct Professor: Wendeln

Majors/Minors
Major/Minor Name
Bachelor of Science with a major in Manufacturing Engineering Technology (MFG)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
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MFG 490 SENIOR PROJECT 2
Technical electives 2 6
General Education Requirements 6

1 Two composition courses must be taken during the course of the first year, one per semester. If ENG 101 is taken during the first semester, ENG 102 must be taken during the second semester. If ENG 114 is taken during the first semester, ENG 198 must be taken during the second semester. Likewise, if ENG 198 is taken during the first semester, ENG 114 must be taken during the second semester.

2 Select from list approved by the Department of Engineering Technology.

Courses (Collapse All Courses)

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<td>MFG 108L</td>
<td>MANUFACTURING PROCESSES LABORATORY</td>
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<td>Application of metal-cutting theory using single- and multiple-point cutting tools, basic metal removal process of toolroom and production machines. Experience on conventional milling machines, shapers, lathes, surface grinders, and drill presses. Three hours of laboratory a week.</td>
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<td>MATERIALS AND PROCESSES</td>
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<td>Chemical and physical properties of metals, ceramics, and polymers; casting processes; powdered metallurgy; metal forming; plastics processes. Oral and written presentation of a team case study. Prerequisite(s): SET 153L. Corequisite(s): MFG 204L.</td>
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<td>MFG 204L</td>
<td>MATERIALS AND PROCESSES LABORATORY</td>
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<td>Testing of materials for tensile strength, impact and hardness properties, cooling curves and equilibrium diagram development, heat treating and hardenability curve determination, cold forming, plastics materials processing, micro polishing and metallography; visits to local industries. Three hours of laboratory a week. Prerequisite(s): SET 153L. Corequisite(s): MFG 204L.</td>
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<tr>
<td>MFG 206L</td>
<td>DIMENSIONAL METROLOGY</td>
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<td>Theory and practice of precision measurement including the surface plate, angle and sine plates; surface texture and roundness; optical microscope and profile projector; mechanical and electronic gages; co-ordinate measuring machine; length standards and height gages; fixed and functional gages; sources of measurement error; introduction to Geometric Dimensioning and Tolerancing. Three hours of laboratory a week. Prerequisite(s): MCT 110L; MTH 137.</td>
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<td>MFG 240</td>
<td>MANUFACTURING DESIGN</td>
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<td>Manufacturing planning; advanced Geometric Dimensioning and Tolerancing using ANSI 14.5m-1994; paper gaging; process planning; advanced cutting tools; workholders; power presses-blanking, forming, draw dies, fine blanking; group technology, gage, jig and fixture design. Prerequisite(s): MCT 110L; MFG 108L, 204, 206L.</td>
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<td>MFG 400</td>
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<td>Investigation and discussion of current topics in manufacturing engineering technology. May be taken more than once. Prerequisite(s): Permission of the department chairperson.</td>
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<td>MFG 424</td>
<td>ROBOTICS</td>
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<td>Study of robotics including history, robot geometry, cost justification, end-effector (types, use, and design), sensors, and programming. Application of robots in industries. Robot programming and operation projects and end-effector design projects. Prerequisite(s): MCT 220, 313; SET 153L.</td>
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<td>MFG 426</td>
<td>AUTOMATED MANUFACTURING SYSTEMS AND CIM</td>
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<td>CIM systems and interrelationships; group technology, computer-aided process planning, expert systems, local area networks, automated flow lines, data collection, and material handling. Team project to plan, design, and make an oral presentation of a proposal for a complete manufacturing</td>
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Prerequisite(s): ECT 110; SET 153L.

MFG 431 CONTROLS FOR INDUSTRIAL AUTOMATION
Topics include: fundamentals of digital logic, pneumatic power, electromechanical sensors and actuators, pneumatic and electrical control circuit analysis and design, industry safety and design standards, concepts of mechatronics, programmable logic controllers, and networking communications. Includes lab experiences.
Prerequisite(s): ECT 120; SET 153L.

MFG 432 MATERIALS AND PROCESSES-PLASTICS AND COMPOSITES
Introduction to the more common plastics and composite engineering materials and their properties. Study of processes including extrusion, injection molding, blow molding, compression and transfer molding, and forming. Topics on part and tooling design.
Prerequisite(s): CHM 123; MFG 204.

MFG 434 COMPUTER NUMERICAL CONTROL
CNC programming of turning center and machining center; application of CAM software to design CNC programs, edit programs, and display tool paths. Parametric part programming concepts to produce complex surfaces. Machine set-up and operation. Design, programming, and production of products in extensive CNC lab facility.
Prerequisite(s): MCT 110L; MFG 108L; MTH 138; SET 153L.

MFG 435 ADVANCED NUMERICAL CONTROL
Instruction in the programming of complex, multi-axis CNC machines. Extended parametric programming. Programming language techniques.
Prerequisite(s): MFG 434.

MFG 490 SENIOR PROJECT
Study and research in a specific area that integrates major elements from previous design and manufacturing process courses, culminating in individual and/or group projects, technical reports, and presentations.
Prerequisite(s): CMM 110, 111/112; IET 323; MFG 108L, 240, 431; MTH 198; senior status.
School of Engineering

Engineering Technology

You are currently viewing Mechanical Engineering Technology, an academic area in Engineering Technology. To view academic information for Engineering Technology, click here.

(MCT) Mechanical Engineering Technology (Collapse Description)

The Mechanical Engineering Technology Program emphasizes the practical application of the principles of the mechanical field. Career opportunities are in mechanical design, computer-aided design, product evaluation and development, manufacturing engineering, computer-aided manufacturing, plant engineering, technical sales, technical service, fluid power, automation, and supervision. A significant portion of the graduates are in technical management. The curriculum includes a core of technical sciences; applied courses in design, thermodynamics, fluid mechanics, and manufacturing; extensive laboratory experiences; and mathematics from college algebra through probability, statistics, calculus, and differential equations. Courses are required in oral and written communication, with components in the humanities and social sciences to provide insight into the impact of technology on society. Concepts from basic education are stressed in technical courses. The curriculum is broad to prepare graduates for employment and provide a foundation on which to base continued study of changing technology.

Faculty

Scott Segalewitz, Chairperson of Department of Engineering Technology
David H. Myszka, Program Coordinator

Professors Emeriti: Mott, Wilder

Professors: Myszka, Untener, Wolff

Associate Professor: Edmonson

Assistant Professors: Blust, Penrod

Majors/Minors

Major/Minor Name

Bachelor of Science with a major in Mechanical Engineering Technology (MCT)

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Sem. Hrs.

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**Junior-Year**

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**Senior-Year**

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2Select from list approved by the Department of Engineering Technology.

Courses (Collapse All Courses)

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<td>Technical sketching and shape description, orthographic projection theory, multi-view drawings, necessary views, sectional views, working and shop drawings, dimensioning practices, tolerancing, thread and fastener representation and nomenclature, assembly and detail drawings. Six hours of laboratory a week using instruments and commercial computer-aided design (CAD) software.</td>
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<tr>
<td>MCT 111L</td>
<td>INTRODUCTION TO DESIGN</td>
<td>2</td>
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<tr>
<td></td>
<td>Advanced topics of Computer Aided Design using three-dimensional, parametric, solid modeling software. Laboratory assignments involving the CAD software are completed through a series of individual and team design projects. Introduction to design requirements, conceptualization, and design decisions. Computer drafting topics such as ANSIY 14.5M-1994 geometric dimensioning and tolerancing standards, weld symbols, machining and surface finish symbols. Blueprint reading.</td>
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<td></td>
<td>Prerequisite(s): MCT 110L.</td>
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<tr>
<td>MCT 220</td>
<td>STATICS AND DYNAMICS</td>
<td>3</td>
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<tr>
<td></td>
<td>Study of forces on bodies at rest and in motion using Newton’s three laws of motion. Vectors, force systems, components, reactions, resultants, free body diagrams, equilibrium, centroids, moment of inertia, kinetics, and kinematics.</td>
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<td></td>
<td>Prerequisite(s): SET 153L.</td>
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<td></td>
<td>Corequisite(s): MTH 137.</td>
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<tr>
<td>MCT 221</td>
<td>STRENGTH OF MATERIALS</td>
<td>3</td>
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<tr>
<td></td>
<td>Analysis and design of load-carrying members, considering stress, strain, and deflection. Study of direct tension, compression, and shear; torsion; shear and moment diagrams; bending; combined stress; analysis of columns; pressure vessels.</td>
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<tr>
<td></td>
<td>Prerequisite(s): MCT 220; MFG 204, 204L; MTH 137; SET 153L.</td>
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<tr>
<td>MCT 231</td>
<td>FLUID MECHANICS</td>
<td>3</td>
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<tr>
<td></td>
<td>Fluid properties, fluid statics including manometry, submerged surfaces, buoyancy and stability of floating bodies. The principles of fluid flow including Bernoulli’s and energy equations, energy losses, and pump power. Analysis and design of pipe line systems and open channels; pump selection.</td>
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<tr>
<td></td>
<td>Prerequisite(s): MTH 137; SET 153L.</td>
<td></td>
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<tr>
<td>MCT 313</td>
<td>INDUSTRIAL MECHANISMS</td>
<td>3</td>
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<tr>
<td></td>
<td>Design and analysis of linkages and cams. Graphical solutions to kinematics problems including the concepts of instantaneous motion and relative motion. Development and analysis of motion diagrams. Study of geometric features of gears and gear transmission systems.</td>
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<tr>
<td></td>
<td>Prerequisite(s): MCT 110L, 220; MTH 137; SET 153L.</td>
<td></td>
</tr>
<tr>
<td>MCT 317</td>
<td>MACHINE DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of applied engineering mechanics as they relate to machines; static force analysis in both 2 and 3 dimensional systems, kinetics of machine components by the methods of force-mass-acceleration, work-energy, and impulse-momentum; machine balancing; introduction to mechanical vibrations.</td>
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<td></td>
<td>Prerequisite(s): MCT 313, MTH 250.</td>
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<tr>
<td>MCT 330</td>
<td>DESIGN OF MACHINE ELEMENTS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analytical design techniques used to evaluate machine elements; stress analysis, working stress, failure theories, fatigue failure; design methods for spur gears, shafts, keys and couplings, roller and journal bearings, and springs. Original design project.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): MCT 110L, 221; SET 153L.</td>
<td></td>
</tr>
</tbody>
</table>
MCT 333L MECHANICAL MEASUREMENTS
Laboratory evaluations of metal fatigue, stress, strain, noise, vibration, buckling, and nondestructive examination. Utilization of power supplies, transducers, conditioners, amplifiers, recorders; computer data acquisition. Log books and written final reports.

MCT 336 FLUID POWER
Study of hydraulic and pneumatic fluid power components and systems used in industrial, mobile, and aerospace applications; standard symbols in circuit design; circuit analysis; specification for pumps, valves, cylinders, and circuits; hydraulic fluids; filtration; electric motors; system efficiencies; proportional control and electrohydraulic servo control systems; seals; fluid conductors; pneumatic components and systems. Library research project.
Prerequisite(s): MCT 221.
Corequisite(s): MCT 336L.

MCT 336L FLUID POWER LABORATORY
To accompany MCT 336. Evaluation of fluid power components: pressure, flow, RPM, sound level, current, voltage, power, torque, and time. Graphical design, computational analysis, assembly, and testing of typical circuits and systems. Testing of hydraulic fluids for viscosity, pour point, flash and fire point, specific gravity. Three hours of laboratory a week.

MCT 342 THERMODYNAMICS
Energy analysis of engineering systems using the concepts and laws of thermodynamics. The principle of the mechanical equivalent of heat, behavior of pure substances, use of thermodynamic property tables, and study of gas mixtures. Application of the Carnot cycle to both heat engines and reversed heat engines.
Prerequisite(s): MCT 231; MTH 138; SET 153L.

MCT 400 SELECTED MECHANICAL TOPICS
Investigations and discussion of current technical topics in mechanical engineering technology. Research report. May be taken more than once.
Prerequisite(s): Permission of the department chairperson.

MCT 423 PRODUCT DEVELOPMENT
Synthesis of mechanical devices and systems. Emphasis on the integration of various machine elements into a single unit. Activities include design, scheduling, budgeting, purchasing, fabrication, assembly and performance testing of an original team project.
Prerequisite(s): MCT 330.

MCT 430 DESIGN OF FLUID POWER SYSTEMS
Energy efficiency; pressure drop determinations, variable volume pressure-compensated pumps, accumulators, proportional and electrohydraulic valves, cylinder design, hydraulic motor selection; circuit design, open and closed loop systems, power unit design; sizing of electric motors; use of industrial data and National Fluid Power Assn.-JIC design standards. Individual design project.
Prerequisite(s): MCT 336.

MCT 432 HEAT POWER
Applications of the principles of thermodynamic cycles. Analysis of energy transfer systems such as internal combustion and gas turbine engines. Power generation through steam cycles including reheat and regenerative cycles. Reversed heat engine cycles and vapor compression cycles used in heating and cooling.
Prerequisite(s): MCT 342; SET 153L.

MCT 438 HEAT TRANSFER
The principles of conduction, convection, and thermal radiation energy transfer. Conduction through series and parallel walls, pipes, and containers. Forced and free convection through films, thermal radiation of energy between surfaces, and the overall transfer of heat.
Prerequisite(s): MCT 231; SET 153L.

MCT 440 APPLIED VIBRATIONS
Free and forced vibration of single degree of freedom systems with and without damping. Industrial applications including reciprocating and rotating machinery, balancing, isolation, and noise reduction. Demonstrations of
vibration sensors and instrumentation.

**Prerequisite(s):** MCT 317; SET 153L.

**MCT 445**  
**EXPERIMENTAL MECHANICS**

The selection, application, and use of strain gages and strain gage rosettes. Transformation of stress and strain. Advanced mechanics of materials topics with empirical verification of theoretical predictions.

**Prerequisite(s):** MCT 221.

**MCT 445L**  
**EXPERIMENTAL MECHANICS LABORATORY**

Installation of strain gauge rosettes. Experiments to determine the state of strain and stress in structures using strain gauges, photoelasticity, and brittle coatings. Vibration measurement using strain gauges, accelerometers, and motion transducers. Written and oral reports.

**MCT 446**  
**APPLIED FINITE ELEMENT MODELING**

Introduction to the fundamentals of structural finite element modeling. Geometry creation, element types, material specification, problem solution and results postprocessing. A focus is placed on modeling techniques using commercially available software.

**Prerequisite(s):** MCT 221; SET 153L.

**MCT 490**  
**MECHANICAL ENGINEERING TECHNOLOGY SENIOR PROJECT**

Bringing together analytical and graphical techniques from previous courses to accomplish the design of a complete mechanism, machine, or mechanical system. Conceptual, preliminary, and final design. Prototyping and evaluation of an original team project. Written and oral reports.

**Prerequisite(s):** CMM 110, 111/112; IET 323; MCT 317, 330; MTH 138; senior status.
College of Arts and Sciences
(ENG) English (Collapse Description)

The University requirement in English composition is satisfied by the completion of ENG 101-102, ENG 114, or ENG 198. Completing this requirement is a prerequisite for 200- and 300-level English courses. For placement information, see Reading and Writing General Competencies requirements in Section V. For additional details, consult the department chairperson or the director of writing programs.

Students majoring in English must complete at least 36 semester hours of English courses, including first-year composition, and at least 24 semester hours at the 300-400 level.

A minor in English consists of twelve semester hours. Students in B.A. programs can acquire teacher licensure in Integrated Language Arts through the E11A program. For details, consult the department chairperson.

The English department awards a writing certificate to students who achieve a 3.0 grade-point average in 18 semester hours of approved writing and writing-related courses, including at least 12 semester hours of upper-divisional (300-400) courses, and who pass a final examination including an impromptu essay. For details, consult the department chairperson.

Faculty
Brian P. Conniff, Chairperson
Margaret M. Strain, Director of Graduate Studies
Stephen W. Wilhoit, Director of Writing Programs
Anne S. Pici, Program Coordinator

Professors Emeriti: August, Cochran, Henninger, Labadie, Martin, Means, Murphy, Palumbo, Patrouch, Ruff, Stockum

Professors: Conniff, J. Farrelly, Kimbrough, K. Marre, J. Pici, Associate Professors: Boehnlein, Durham, L. Marre, Shereen, Strain, Tuss, Wilhoit, Youngkin
Assistant Professors: Bardine, Carrillo, Hughes, Krummel, McCombe, Potter, Wardle
Poet-in-Residence: Martin

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Arts with a major in English (ENG)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>English</td>
<td>36</td>
</tr>
<tr>
<td>ENG (101-102 or 114 or 198), 300, 301, 302, 305, 362, (476 or 486), 490</td>
<td>24-27</td>
</tr>
<tr>
<td>Select one writing course (300- or 400-level)</td>
<td>3</td>
</tr>
<tr>
<td>ENG electives</td>
<td>6-12</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies 12
- History 6
- Creative and Performing Arts 3
- Foreign Language and/or Additional Arts and/or Humanities (excludes ENG courses) 3-9
- Social Sciences 12
- Mathematics (excludes MTH 102, 204, 205) 3
- Natural Sciences 11
Communication Competencies 3

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

Minor in English (ENG)

Sem. Hrs.

English 12

Select twelve additional semester hours (300- or 400-level) 12

1 In addition to the composition requirement.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
<td>3</td>
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<tr>
<td></td>
<td>Analysis of the processes of reading and writing aimed at the development and refinement of critical thinking skills, critical reading skills, and critical writing skills. Students must pass course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<tr>
<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
<td>3</td>
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<td></td>
<td>Study of appropriate rhetorical structures and styles for analytic, synthetic, and argumentative essays. Practice in developing critical reading and writing skills with an emphasis on writing from sources. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<td></td>
<td>Prerequisite(s): ENG 101.</td>
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<tr>
<td>ENG 114</td>
<td>FRESHMAN WRITING SEMINAR</td>
<td>3</td>
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<td></td>
<td>A one-semester composition course for first-year students who show high proficiency. First term only. Open by permission only. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<tr>
<td>ENG 151</td>
<td>INTRODUCTION TO LITERATURE</td>
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<td>A critical study of literary forms-fiction, drama, and poetry-representative of various eras and cultures. May be taken concurrently with ENG 102.</td>
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<tr>
<td></td>
<td>Prerequisite(s): ENG 101 or equivalent.</td>
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<tr>
<td>ENG 198</td>
<td>ENGLISH SCHOLARS’ SEMINAR</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and seminar discussion of selected literary masterworks and appropriate criticism thereof, with equal emphasis on composition. Open by permission only to first-year students in the Berry Scholars Program. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<tr>
<td>ENG 203</td>
<td>MAJOR BRITISH WRITERS</td>
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<tr>
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<td>Study of four or five writers representative of the principal periods in English literature.</td>
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<td></td>
<td>Prerequisite(s): ENG 102 or equivalent.</td>
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<tr>
<td>ENG 204</td>
<td>MAJOR AMERICAN WRITERS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of four or five writers representative of the principal periods in American literature.</td>
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<td></td>
<td>Prerequisite(s): ENG 102 or equivalent.</td>
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<tr>
<td>ENG 205</td>
<td>MAJOR WORLD WRITERS</td>
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<tr>
<td></td>
<td>Study (in translation) of four or five writers representative of the principal periods in (chiefly Western world) literature, exclusive of English and American literature.</td>
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<td>Prerequisite(s): ENG 102 or equivalent.</td>
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<tr>
<td>ENG 210</td>
<td>POETRY</td>
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</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001768&c=-1&p=-1
Study of representative examples of a major literary genre.
Prerequisite(s): ENG 102 or equivalent.

ENG 230  TOPICS IN LITERATURE 1 - 6
Exploration of varying approaches to the study of literature. Can be repeated under special circumstances.
Prerequisite(s): ENG 102 or equivalent.

ENG 242  SOPHOMORE HONORS 3 - 6
Seminar in which selected works from the literature of Western civilization are studied.

ENG 272  EXPOSITORY WRITING 3
Further practice in writing expository themes and documented papers. A continuation of ENG 102 for students desiring more experience in writing.
Prerequisite(s): ENG 102 or equivalent.

ENG 282  INTRODUCTION TO WRITING POETRY 3
A beginning course in analyzing and writing poetry.
Prerequisite(s): ENG 102 or equivalent.

ENG 284  INTRODUCTION TO WRITING FICTION 3
A beginning course in analyzing and writing short fiction.
Prerequisite(s): ENG 102 or equivalent.

ENG 286  INTRODUCTION TO WRITING DRAMA 3
A beginning course in analyzing and writing short plays.
Prerequisite(s): ENG 102 or equivalent.

ENG 300  LITERARY ANALYSIS AND RESEARCH-POETRY 3
Detailed analysis of selected poems, with attention to their use of traditional forms and conventions, combined with training in standard methods of interpretation and research.
Prerequisite(s): ENG 102 or equivalent.

ENG 301  SURVEY OF EARLY ENGLISH LITERATURE 3
Survey of English literature from the Medieval period to the end of the 18th century.
Prerequisite(s): ENG 102 or equivalent.

ENG 302  SURVEY OF LATER ENGLISH LITERATURE 3
Survey of English literature from the beginning of the Romantic period to the present.
Prerequisite(s): ENG 102 or equivalent.

ENG 305  SURVEY OF AMERICAN LITERATURE 3
Survey of American literature from the Colonial period to the present.
Prerequisite(s): ENG 102 or equivalent.

ENG 306  SURVEY OF CONTINENTAL LITERATURE 3
Survey of continental European literature from Homer to the present.
Prerequisite(s): ENG 102 or equivalent.

ENG 308  ADVANCED WRITING OF POETRY 3
Intensive practice in the writing of poems.
Prerequisite(s): ENG 282 or permission.

ENG 310  ADVANCED WRITING OF FICTION 3
Intensive practice in the writing of fiction.
Prerequisite(s): ENG 284 or permission.

ENG 312  ADVANCED WRITING OF DRAMA 3
Intensive practice in the writing of plays.
Prerequisite(s): ENG 286 or permission.

ENG 316  ADVANCED COMPOSITION 3
Intensive practice in the writing of essays and the study of rhetoric.
Prerequisite(s): ENG 102 or equivalent.
ENG 317  CONTEMPORARY POETRY
Study of selected poems by recent writers.
Prerequisite(s): ENG 102 or equivalent.

ENG 319  CONTEMPORARY FICTION
Study of selected novels and short fiction by recent writers.
Prerequisite(s): ENG 102 or equivalent.

ENG 320  CONTEMPORARY DRAMA
Study of selected plays to illustrate major tendencies of modern drama.
Prerequisite(s): ENG 102 or equivalent.

ENG 322  MASTERPIECES OF WORLD LITERATURE
Intensive study of major literary works representative of various cultures.
Works are studied in translation, although an English language work or two may be included for appropriate comparison.
Prerequisite(s): ENG 102 or equivalent.

ENG 323  LITERATURE OF THE CHRISTIAN TRADITION
A study of literary works that form part of the Christian religious tradition.
Prerequisite(s): ENG 102 or equivalent.

ENG 324  THE NOVEL
A consideration of selected novels to illustrate various fictional modes.
Prerequisite(s): ENG 102 or equivalent.

ENG 325  SCIENCE FICTION
Survey of science fiction with detailed analysis of selected novels and short fiction.
Prerequisite(s): ENG 102 or equivalent.

ENG 326  SPORT AND LITERATURE
An historical approach to analyzing the function of sport in society and literature, from Greek times to contemporary times.
Prerequisite(s): ENG 102 or equivalent.

ENG 327  STUDIES IN POPULAR FICTION
Analysis of selected artifacts of popular culture with reference to serious literature. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 329  SHORT STORY
Study of the techniques employed in the writing of the short story. Analysis of various models of the short story.
Prerequisite(s): ENG 102 or equivalent.

ENG 330  DEVELOPMENT OF DRAMA
Study of the historical development of the drama from its beginnings to the 19th century. Analysis of plays from each significant period.
Prerequisite(s): ENG 102 or equivalent.

ENG 331  STUDIES IN FILM
Analysis of selected films to show developments in film technique or criticism.
Prerequisite(s): ENG 102 or equivalent.

ENG 332  STUDIES IN LITERATURE AND FILM
Studies in literary texts and the film treatments of those texts. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 333  IMAGES OF WOMEN IN LITERATURE
Examination of significant literary works that portray traditional images of women.
Prerequisite(s): ENG 102 or equivalent.

ENG 334  MODERN MEN--IMAGES
Critical examination of significant literary works that portray males in traditional and non-traditional roles.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 335 MODERN BLACK LITERATURE**
Study of selected 20th-century black writers.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 336 GENDER IN FICTION**
Study of major works of American and British male and female authors from different periods, analyzing the authors, their principal characters, themes, and narrative technique as they reflect different aspects of the issue of gender in literature.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 337 STUDIES IN FOLKLORE**
Selected studies in American and/or world folklore. May be repeated as topics change.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 338 IMAGES OF BUSINESS**
Examination of the modern world of work, the image of the business "professional," and the influence of organization on global society and values as these themes are revealed primarily in modern literature.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 339 AMERICAN INDIAN LITERATURE**
Survey of American Indian oral narrative and literature.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 340 THE PRISON IN LITERATURE**
Survey of prison literature from the rise of the modern prison in the late 18th-century through the contemporary period.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 342 LITERATURE AND THE ENVIRONMENT**
Examination of nature and environment in literature, focusing on literary representations of nature; nature writing; fiction and ecocriticism; the environment and the literary imagination. 3 sem. hrs.

**Prerequisite(s):** Prerequisite(s): ENG 102 or equivalent.

**ENG 345 COLONIAL AND POSTCOLONIAL LITERATURE**
Examination of significant literary works that reveal the diversity of human cultures shaped by colonial and postcolonial contexts.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 348 MODERN IRISH LITERATURE**
A consideration principally of the Irish literary revival of the late 19th and early 20th centuries with appropriate background material.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 350 EUROPEAN LITERATURE OF ANTIQUITY**
Study of significant works from the Old Testament and Greek, Roman, English, Irish, and/or Scandinavian writers.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 351 EUROPEAN LITERATURE OF THE MIDDLE AGES**
Study of selected literary masterpieces of Western civilization in the Middle Ages.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 353 LITERATURE OF THE RENAISSANCE**
Study of selected literary masterpieces from England and the Continent that illustrate the culture and ideas of the Renaissance.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 354 LITERATURE OF THE ENLIGHTENMENT**
Study of selected English and European literature from the Age of Reason.

**Prerequisite(s):** ENG 102 or equivalent.
ENG 355 LITERATURE OF THE ROMANTIC AGE
Study of the Romantic Revolution as illustrated in representative writings of English and European authors.
Prerequisite(s): ENG 102 or equivalent.

ENG 356 EUROPEAN LITERATURE OF THE NINETEENTH CENTURY
Study of representative masterpieces from the literature of England and the Continent during the 19th century.
Prerequisite(s): ENG 102 or equivalent.

ENG 357 EUROPEAN LITERATURE OF THE EARLY TWENTIETH CENTURY
Study of significant English and European literature that illustrates the ideas and culture of the early modern period.
Prerequisite(s): ENG 102 or equivalent.

ENG 358 CONTEMPORARY LITERATURE OF EUROPE
Study of selected Western European literature that illustrates the ideas and culture of the present age.
Prerequisite(s): ENG 102 or equivalent.

ENG 362 SHAKESPEARE
Study of selected plays and poems of Shakespeare.
Prerequisite(s): ENG 102 or equivalent.

ENG 362L SHAKESPEARE PERFORMANCE LABORATORY
Study of Shakespearean performances through films, video tapes, and recordings. Three hours a week. Students in 362L must have already taken or be registered for ENG 362 or an equivalent Shakespeare course
Corequisite(s): ENG 362 or equivalent Shakespeare course.

ENG 363 SHAKESPEARE'S WORLDS
A concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with HST 308.

ENG 370 REPORT WRITING
Analysis of and practice in both basic and complex written reports, including the long formal report
Prerequisite(s): ENG 102 or equivalent.

ENG 372 APPLIED WRITTEN COMMUNICATIONS
Analysis of and practice in written communications appropriate to business and industrial organizations, including forms of correspondence and a job-application project but excluding formal reports.
Prerequisite(s): ENG 102 or equivalent.

ENG 376 TOPICS IN WRITING
Analysis of and practice in specific forms of writing. May be repeated as forms change.
Prerequisite(s): ENG 102 or equivalent.

ENG 378 PROFESSIONAL AND TECHNICAL WRITING
Practice in developing writing skills needed in business, government, and industry.
Prerequisite(s): ENG 102 or equivalent.

ENG 380 STUDIES IN LITERATURE
Study of special topics or themes in literature. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 382 MOZART'S OPERAS
An interdisciplinary survey of Mozart's operas -German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 383</td>
<td>THE TRAGIC DILEMMA</td>
<td>Examination of tragedy from ancient times to modern times, with emphasis on both the form(s) of tragedy and the tragic vision of life.</td>
<td>ENG 102 or equivalent</td>
</tr>
<tr>
<td>ENG 384</td>
<td>CHRISTIANITY AND MODERN POETRY</td>
<td>A study of selected poets from the modern period whose work draws from the major literary, intellectual, cultural, and theological traditions of Christianity.</td>
<td>ENG 102 or equivalent</td>
</tr>
<tr>
<td>ENG 395</td>
<td>JUNIOR HONORS TUTORIAL</td>
<td>Independent directed study on special topics for selected students. May be repeated as topic or instructor changes.</td>
<td>Permission required</td>
</tr>
<tr>
<td>ENG 405</td>
<td>CHAUCER</td>
<td>Study of Chaucer's life, world, language, and literary achievement, concentrating on The Canterbury Tales (in Middle English).</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 407</td>
<td>MEDIEVAL ENGLISH LITERATURE</td>
<td>Study of the dominant types in the literature of England from the beginning to 1500.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 410</td>
<td>EARLY RENAISSANCE LITERATURE</td>
<td>Survey of the literature of the 16th century from Thomas More to Sidney and Spenser.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 414</td>
<td>LATER RENAISSANCE LITERATURE</td>
<td>Survey of the literature of the early 17th century from Bacon, Jonson, and Donne to Marvell, exclusive of Milton.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 431</td>
<td>MILTON</td>
<td>Study of the major and minor poems and of selected prose of Milton.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 433</td>
<td>STUDIES IN NEO-CLASSICAL LITERATURE</td>
<td>Study of English literature from Dryden to Johnson. May be repeated as topics change.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 438</td>
<td>ENGLISH ROMANTICISM</td>
<td>Study of the major poets and critics of the Romantic Age.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 444</td>
<td>STUDIES IN NINETEENTH-CENTURY ENGLISH LITERATURE</td>
<td>Study of English literature in the 19th century. May be repeated as topics change.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 448</td>
<td>TWENTIETH-CENTURY BRITISH LITERATURE</td>
<td>Study of significant developments in modern British literature.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 451</td>
<td>AMERICAN ROMANTICISM</td>
<td>Study of significant developments in American literature of the mid-19th century.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 453</td>
<td>AMERICAN REALISM AND NATURALISM</td>
<td>Study of representative writers from the post-Civil War period in American literature.</td>
<td>A 200- or 300-level English course</td>
</tr>
<tr>
<td>ENG 455</td>
<td>TWENTIETH-CENTURY AMERICAN LITERATURE</td>
<td></td>
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</tr>
</tbody>
</table>
Study of significant developments in American literature of the 20th century.  
**Prerequisite(s):** A 200- or 300-level English course.

ENG 488  INTRODUCTION TO LINGUISTICS  3
Introduction to the basic concepts and procedures of general linguistics, including language description, history, variation, theory, and acquisition.  
**Prerequisite(s):** A 200- or 300-level English course.

ENG 470  HISTORY OF ENGLISH  3
Study of stages in the development of the English language and of influences shaping its development from the beginning to the present.  
**Prerequisite(s):** A 200- or 300-level English course.

ENG 472  THE STRUCTURE OF ENGLISH  3
Study of the grammatical structure of modern English from traditional and modern linguistic points of view.  
**Prerequisite(s):** A 200- or 300-level English course.

ENG 474  ARGUMENTATION  3
Studies and practice in the patterns of argumentative writing. Recommended for the pre-professional student.  
**Prerequisite(s):** ENG 272, 316, 370, or permission of instructor.

ENG 476  COMPOSITION THEORY  3
Study of the principal current theories of composition, with application to the teaching and evaluating of writing.  
**Prerequisite(s):** ENG 316 or permission of instructor.

ENG 477  HONORS THESIS PROJECT  3
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approval of the University Honors Program.

ENG 478  HONORS THESIS PROJECT  3
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

ENG 480  INDEPENDENT STUDY  1-6
Individual investigations of special topics under faculty direction. May be repeated under special circumstances.  
**Prerequisite(s):** At least fifteen semester hours of English; permission.

ENG 482  MODERN POETRY  3
Concentrated, advanced study in the development of modern poetry, both English and American.  
**Prerequisite(s):** A 200- or 300-level English course.

ENG 485  INTERNSHIP IN WRITING  1-6
Application of writing skills to specific projects of an approved organization. Practical and professional experience offered to juniors and seniors (particularly English majors and minors) as a supplement to the writing curriculum.  
**Prerequisite(s):** Permission of supervising instructor.

ENG 488  LITERARY THEORY  3
Comparative critical reading of classical and modern theoretical texts and analysis of critical methodology.  
**Prerequisite(s):** A 200- or 300-level English course.
Concentrated study of a topic designed to integrate selected aspects of literary history, critical approaches, and research skills developed by English majors in previous required courses. May be repeated as topics change.

Prerequisite(s): ENG 300, 301, 302, 305; (ENG 476 or 488).

ENG 495 SENIOR HONORS TUTORIAL

Independent directed study on special topics for selected students. May be repeated as topic or instructor changes.

Prerequisite(s): Permission required.
College of Arts and Sciences

(General Studies) (Collapse Description)

The Bachelor of General Studies program is designed for those students who desire to pursue a non-traditional degree program at the University outside of any departmental major. This degree program permits great latitude in utilizing the academic resources of the University for planning and acquiring an education to meet individual needs. Students may plan their programs to the best advantage of their particular educational objectives. Students build their programs on the foundation of University General Competencies and General Education requirements.

Majors/Minors

Major/Minor Name

Bachelor of General Studies (GEN)

Admission requirements for the Bachelor of General Studies are the same as those for any other degree offered in the College of Arts and Sciences.

Candidacy for the Bachelor of General Studies may be declared in the first year but not later than the commencement of a student's last 30 hours of study. An application for acceptance into the degree program must be completed and approved by an Assistant Dean in the College of Arts and Sciences. Any students in good academic standing may request transfer into this program.

The General Studies student is required to plan an academic program to satisfy the requirements for graduation in consultation with an Assistant Dean. The General Studies student must complete a minimum of the last 30 hours of study under the supervision of an Assistant Dean who will serve as the student's advisor. The usual policy of prerequisites remains in effect in this program.

1. University General Competencies and the General Education requirements (see Chapter V),

2. Three semester hours of mathematics selected from courses offered by the Mathematics department (excluding MTH 102, 204, 205),

3. Study of the natural sciences by completing 7 semester hours in approved natural science courses (biology, chemistry, geology, physics), including one course with accompanying laboratory,

4. A minimum of 54 semester hours of courses at the 300-400 level with a grade point average of 2.0 or better,

5. Not more than 30 semester hours of work from any one academic discipline.

6. Credits earned in completion of the Bachelor of General Studies may not be applied at a later time to the credits for a second degree from the College of Arts and Sciences.

Sem. Hrs.

General Studies

120
Geology (GEO) Geology (Collapse Description)

Geology is the study of the earth. It incorporates many aspects of our complex planet including its composition, structure, environment, dynamic and hazardous processes, and the development of life, continents and oceans through time. Geology plays a critical role in interpreting the earth's long history of global change, and in predicting future environmental change.

The geology department offers two programs leading to a Bachelor of Science in geology and environmental geology. The geology (GEO) major provides basic courses in the geological sciences and a range of advanced level courses that allow students to develop courses of study that complement particular interests within the field. The environmental geology (EVG) program is broad in scope, providing a firm grounding in the fundamentals of earth science as well as an interdisciplinary curriculum including geology, biology, chemistry, and other allied science courses, reflecting the interdisciplinary nature of environmental concerns.

The geology department aims to prepare students for a career in the geological sciences. Graduates of the department are competitive for entry to graduate programs. Geology majors pursue careers in a wide range of settings including: state and federal geological agencies; geological consulting companies; natural resource exploration, development and management; museums; research laboratories; and education. Environmental geologists address critical needs of our society ranging from groundwater protection and water-supply development to the identification and assessment of natural hazards.

A minor in geology consists of twelve semester hours.

Faculty

Donald Pair, Chairperson
Professor Emeritus: Ritter
Professor: Sandy
Associate Professors: Koziol, A. McGrew, Pair
Lecturer: Goldman
Visiting Assistant Professor: Farthing
Instructor: Schoenenberger

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science with a major in Environmental Geology (EVG)

The following program, leading to the Bachelor of Science with a major in environmental geology, is designed to present students with the basic courses in the geological sciences as well as provide specific environmental geology courses. The program also requires additional related science courses.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Geology</th>
<th>Year 1</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>GEO 115-115L, 116-116L</td>
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<td>Year 2</td>
<td>GEO 201-201L, 208</td>
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<td>Year 3</td>
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<tr>
<td>GEO electives (select courses from:)</td>
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<tr>
<td>Science electives (select courses from:)</td>
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7/10/2012
BIO 310-310L, 350-350L, 452-452L, 459-459L, 480-480L
CEE 312-312L, 390, 434-434L
CHM 201-201L, 302, 313-313L, 341-341L
CPS 132, 144
MTH 218, 219, 367, 368

Breadth Requirement

Natural Sciences 20
BIO ((101 & 102) or (151 & 152))
CHM 123-123L, 124-124L
PHY 206¹, 207¹
Mathematics, Computer Science 8
MTH 168², 169²
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120-127

¹May substitute PHY 201-202 with permission.
²May substitute MTH 148-149 or MTH 137, 138 & 149 with permission.

Bachelor of Science with a major in Geology (GEO)

Geology

Sem. Hrs.
Year 1 8
GEO 115-115L, 116-116L
Year 2 4
GEO 201-201L
Year 3 8
GEO 301-301L, 307-307L
Year 4 18
GEO 303, 310-310L, 401-401L, 403-403L
GEO electives (select courses from:)
Science electives, with accompanying laboratories where applicable (select courses from:)
BIO, CHM, CPS, GEO, MTH, PHY, Engineering¹

Breadth Requirement

Natural Sciences 14
CHM 123-123L, 124-124L
PHY 206², 207², 207³
Mathematics, Computer Science 8
MTH 168³, 169³
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

¹With permission.
May substitute PHY 201-202 with permission.
May substitute MTH 148-149, or MTH 137, 138 & 149 with permission.

Minor in Geology (GEO)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GEO 103</td>
<td>PRINCIPLES OF PHYSICAL GEOGRAPHY</td>
<td>3</td>
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<tr>
<td>GEO 104</td>
<td>INTRODUCTORY GEOLOGY FIELD COURSE</td>
<td>3</td>
</tr>
<tr>
<td>GEO 109</td>
<td>GENERAL GEOLOGY</td>
<td>3</td>
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<td>GEO 109L</td>
<td>GENERAL GEOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>GEO 115</td>
<td>PHYSICAL GEOLOGY</td>
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<tr>
<td>GEO 115L</td>
<td>PHYSICAL GEOLOGY LABORATORY</td>
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<tr>
<td>GEO 116</td>
<td>GEOLOGICAL HISTORY OF THE EARTH</td>
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<tr>
<td>GEO 116L</td>
<td>GEOLOGICAL HISTORY OF THE EARTH LABORATORY</td>
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</tr>
<tr>
<td>GEO 198</td>
<td>GEO, LANDSCAPE, AND ENVIRONMENT OF THE MIAMI VALLEY</td>
<td>3</td>
</tr>
<tr>
<td>GEO 201</td>
<td>MINERALOGY</td>
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</tr>
<tr>
<td>GEO 201L</td>
<td>MINERALOGY LABORATORY</td>
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</tbody>
</table>

Appropriate prerequisites must be completed.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
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<tr>
<td>GEO 104</td>
<td>INTRODUCTORY GEOLOGY FIELD COURSE</td>
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</tr>
<tr>
<td>GEO 109</td>
<td>GENERAL GEOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>GEO 109L</td>
<td>GENERAL GEOLOGY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 115</td>
<td>PHYSICAL GEOLOGY</td>
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</tr>
<tr>
<td>GEO 115L</td>
<td>PHYSICAL GEOLOGY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 116</td>
<td>GEOLOGICAL HISTORY OF THE EARTH</td>
<td>3</td>
</tr>
<tr>
<td>GEO 116L</td>
<td>GEOLOGICAL HISTORY OF THE EARTH LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 198</td>
<td>GEO, LANDSCAPE, AND ENVIRONMENT OF THE MIAMI VALLEY</td>
<td>3</td>
</tr>
<tr>
<td>GEO 201</td>
<td>MINERALOGY</td>
<td>3</td>
</tr>
<tr>
<td>GEO 201L</td>
<td>MINERALOGY LABORATORY</td>
<td>1</td>
</tr>
</tbody>
</table>

Analysis of the physical factors of the earth's environment: weather, climate, land forms, oceans

Fundamental earth science topics with emphasis on direct field experience. One week on campus, 3 weeks in the Rocky Mountains near Denver, Colorado, and one week of travel. For all non-geology and non-biology majors.
Corequisite(s): BIO 104; (BIO 104L or GEO 104L).

Course to accompany GEO 104

Introduction to the earth as a planet, its composition, structure, and evolutionary development; a brief consideration of the life of the past. For the non-science major. May be taken without laboratory.

Course to accompany GEO 109. Two hours each week.

Introductory course in geologic principles; the composition and structure of the earth, its land forms, and the agencies active in their production. Laboratory optional for nonmajors.

Course to accompany GEO 115. Two hours each week
Prerequisite(s): (GEO 109 or 115); permission of instructor.

A comprehensive study of earth history from its origins to the present.
Prerequisite(s): (GEO 109 or 115); permission of instructor.

Course to accompany GEO 116. Two hours each week.

Field-based course examining the geologic history of the Miami Valley and Dayton area; processes leading to the modern landscape; the impact of human activity will be assessed.
Prerequisite(s): (GEO 109 or 115) or permission of instructor.

Introduction to crystallography, crystal chemistry and crystal structure. Study of the major groups of rock-forming minerals, their association and occurrence with emphasis on identification by physical properties and optical techniques.
Prerequisite(s): (GEO 109 or 115) or permission of instructor.
GEO 208      ENVIRONMENTAL GEOLOGY
Study of the relationship of geologic factors to the problems of water supply, pollution, erosion, land use, and earth resources. Laboratory optional.
Prerequisite(s): (GEO 109 or 115) or permission of instructor.

GEO 208L ENVIRONMENTAL GEOLOGY LABORATORY
Course to accompany GEO 208. Two hours each week.

GEO 218     ENGINEERING GEOLOGY
A comprehensive study of geologic principles applicable to civil engineering practices.

GEO 301     STRUCTURAL GEOLOGY
The origin and development of structural features of the earth’s crust; folding, faulting, volcanism, mountain building, and metamorphism.
Prerequisite(s): GEO 115, 116, 201.

GEO 301L STRUCTURAL GEOLOGY LABORATORY
Course to accompany GEO 301. Two hours each week.

GEO 302     GLACIAL GEOLOGY
The origin of mountain and continental glaciers; their depositional features and erosive activity; history of glaciation in geologic past with special emphasis on North American Quaternary ice advances.
Prerequisite(s): GEO 115, 116.

GEO 302L GLACIAL GEOLOGY LABORATORY
Course to accompany GEO 302. Two hours each week.

GEO 303     FIELD GEOLOGY
Study of field relationships in an area containing abundant igneous, metamorphic, and sedimentary rocks.
Prerequisite(s): GEO 115, 116.

GEO 307     GEOMORPHOLOGY
Detailed study of landforms and the erosional processes that develop them.
Prerequisite(s): GEO 115, 116.

GEO 307L GEOMORPHOLOGY LABORATORY
Course to accompany GEO 307. Two hours each week.

GEO 308     PROBLEMS AND DECISIONS IN ENVIRONMENTAL GEOLOGY
An in-depth examination of selected environmental problems and the way in which scientific information guides practice and policy. Topics will range from investigations of natural hazards to considerations of land use and water resources.
Prerequisite(s): (GEO 109 or 115) or permission of instructor.

GEO 308L PROBLEMS AND DECISIONS IN ENVIRONMENTAL GEO LAB
Course to accompany GEO 308. Two hours each week and periodic field work.

GEO 309     SURFACE AND GROUNDWATER HYDROLOGY
This course is designed to provide a science or engineering student with the fundamental concepts and principles central to the study of water as a resource. This will include an examination of all components of the hydrologic cycle including surface-water hydrology and management, groundwater hydrogeology, and water resource management.
Prerequisite(s): (GEO 109 or 218) or permission of instructor.

GEO 309L SURFACE AND GROUNDWATER HYDROLOGY LABORATORY
Laboratory exercises to accompany GEO 309. Three hours per week.

GEO 310     STRATIGRAPHY
The interpretation of specific lithotypes and the synthesis of the stratigraphic record.
Prerequisite(s): GEO 116.
GEO 310L STRATIGRAPHY LABORATORY
Course to accompany GEO 310. Two hours each week.

GEO 401 PALEONTOLOGY
The study of ancient life. The morphology, ecology, evolution, and stratigraphic distributions of selected invertebrates, vertebrates, and plants.

GEO 401L PALEONTOLOGY LABORATORY
Course to accompany GEO 401. Two hours each week.

GEO 403 SEDIMENTOLOGY
Prerequisite(s): GEO 201.

GEO 403L SEDIMENTOLOGY LABORATORY
Course to accompany GEO 403. Two hours each week.

GEO 404 PROBLEMS IN GEOLOGY
A consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

GEO 411 IGNEOUS PETROLOGY
Study of the formation of igneous rocks.
Prerequisite(s): GEO 201.

GEO 411L IGNEOUS PETROLOGY LABORATORY
Course to accompany GEO 411. Two hours each week.

GEO 412 INTRODUCTORY GEOCHEMISTRY
Study of elementary thermodynamics, aqueous geochemistry, and principles governing the distribution of trace elements, radioisotopes and stable isotopes in igneous, metamorphic and sedimentary rocks. Emphasis on applications and solution of geological problems.
Prerequisite(s): GEO 201 or permission of instructor.

GEO 412L INTRODUCTORY GEOCHEMISTRY LABORATORY
Course to accompany GEO 412. Three hours each week.

GEO 450 APPLIED GIS
Concepts and implementation of project design and analysis in geographic information systems (GIS). Students will learn the practice of GIS as a tool for spatial analysis, and as it applies in professional disciplines. The course will stress database design and present skills for data input, query analysis, and data output using GIS.

GEO 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approval of the University Honors Program.

GEO 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approved 477 and approval of University Honors Program.

GEO 479L ENVIRONMENTAL INSTRUMENTATION LABORATORY
2
The understanding and use of field and laboratory based equipment to study current environmental issues. Emphasis on team-centered approaches to investigating environmental problems.

**Prerequisite(s):** (BIO 151, 152) or (GEO 115, 116) or permission of instructor.

**GEO 495 GEOLOGY SEMINAR**

Introduction to professional practices in the geosciences. Students will attend seminar talks by guest speakers, research career options and graduate programs in the earth sciences, develop a professional resume, and participate in other profession-building activities. May be repeated.

**Prerequisite(s):** Permission of instructor.

**GEO 498 GEOLOGICAL RESEARCH AND THESIS**

Research project within an area of the geological sciences, including, but not limited to, environmental geology, geochemistry, geomorphology, or paleontology. The results are to be presented in a written thesis.

**Prerequisite(s):** Permission of instructor.
School of Education and Allied Professions

(HSS) Health and Sport Science

(Collapse Description)

The mission of the Department of Health and Sport Science is to prepare students to be proficient and professional in the disciplines of dietetics / nutrition, exercise science, physical education, pre-physical therapy, and sport management.

The department also believes its mission is to provide educational programs and instruction for the health fitness needs of all members of the University community.

The department prepares physical educators to meet the needs of public and private schools. The Exercise Science and Fitness Management Program is designed to prepare students for professional opportunities in areas of corporate health, "wellness" programs and health maintenance in a variety of settings. The Sport Management Program is designed to prepare students for professional opportunities in private sports clubs, health clubs, sports organizations/federations, newspapers, television, sporting goods, and the multidimensional areas of recreation. The Pre-Physical Therapy Program will prepare students for graduate school in physical therapy. The Nutrition and Dietetics Programs prepare students for post-baccalaureate dietetic internships or preprofessional practice programs. Along with minimum ACT/SAT scores, a 2.5 G.P.A. is required to enter any program within the department.

In all the department's activities there is a constant search for excellence. The long-range goals and strategies relate to this search in teaching, research, inquiry, programs, recruitment of quality students, and service. Commitment to the use of technology in teaching and research is highly valued in the Department of Health and Sport Science.

Faculty

Paul M. Vanderburgh, Chairperson
Professors Emeriti: Drees, LaVanche, Leonard, Morefield, Roberts, Schieppi, Siciliano
Associate Professors: Baer, Laubach, Titlebaum
Assistant Professors: Brahler, DeMarco, Dolan, Daprano, Linderman

Sub-Categories / Concentrations / Focus Areas

Food and Nutrition - Dietetics

Majors/Minors

(Collapse All)

Major/Minor Name

Bachelor of Science with a major in Exercise Science and Fitness Management Option I (EES)

First-Year

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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<tr>
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<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
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<tr>
<td>HSS 101</td>
<td>INTRODUCTION TO THE UNIVERSITY</td>
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<tr>
<td>HSS 112</td>
<td>INTRODUCTION TO EXERCISE SCIENCE AND FITNESS MANAGEMENT</td>
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<tr>
<td>HSS 117</td>
<td>PERSONAL AND COMMUNITY HEALTH</td>
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<td>HSS 182</td>
<td>AEROBIC CONDITIONING</td>
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<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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Second-Term

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<td>GROUP DECISION MAKING</td>
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<td>ENG 102</td>
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<td>COMPUTER APPLICATIONS IN SPORT SCIENCE</td>
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<tr>
<td>HSS 361</td>
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<td>STRESS MANAGEMENT (HSS 373)</td>
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<td>PSY 101</td>
<td>INTRODUCTORY PSYCHOLOGY</td>
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<tr>
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<td>3</td>
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**Sophomore-Year**

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**Junior-Year**

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**Senior-Year**

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### Bachelor of Science with a major in Exercise Science and Pre-Physical Therapy (EPT)

**Sem. Hrs.**

#### First-Year

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#### Sophomore-Year

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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=100001800&c=1&p=-1 7/10/2012
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Bachelor of Science with a major in Physical Education Pre K-12 (EDP)
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Sophomore-Year

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<td>HSS 306</td>
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<td>MTH 207</td>
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<tr>
<td>MUS 306</td>
<td>HISTORY OF AMERICAN JAZZ</td>
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Junior-Year

First-Term

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Second-Term

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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001800&c=-1&p=-1 7/10/2012
### Bachelor of Science with a major in Sport Management Option I (ESM)

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<td>TESTS AND MEASUREMENTS IN SPORT SCIENCE</td>
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<td>KINESIOLOGY LABORATORY (HSS 409)</td>
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### Junior-Year

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<td>SPORTS MEDIA</td>
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<td>HSS 354</td>
<td>SPORT IN THE GLOBAL COMMUNITY</td>
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<td>HSS 357</td>
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### Senior-Year

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¹Three semester hours required.
²Consult program director.

Bachelor of Science with a major in Sport Management Option II (ESM)

### First-Year

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Sophomore-Year

First-Term

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Junior-Year

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Senior-Year

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1Three semester hours required.
2Consult program director.

Courses (Collapse All Courses)

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7/10/2012
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<tr>
<td>HSS 109</td>
<td>PERSONAL AND PROFESSIONAL DEVELOPMENT OF THE TEACHER</td>
<td>2</td>
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<tr>
<td></td>
<td>A course to help the student define professional goals and assess</td>
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<td></td>
<td>personal strengths and weaknesses in the light of competencies</td>
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<td>deemed essential for a physical education teacher.</td>
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<td>HSS 111</td>
<td>INTRODUCTION TO SPORT MANAGEMENT</td>
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<td>A course to help the student define professional goals and assess</td>
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<td>personal strengths and weaknesses in the light of competencies</td>
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<td>deemed essential for a sport management career.</td>
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<tr>
<td>HSS 112</td>
<td>INTRODUCTION TO EXERCISE SCIENCE AND FITNESS MANAGEMENT</td>
<td>2</td>
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<td></td>
<td>A course to help the student define professional goals and assess</td>
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<td>personal strengths and weaknesses in the light of competencies</td>
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<td>deemed essential for an exercise science and fitness management</td>
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<td></td>
<td>career.</td>
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<td>HSS 113</td>
<td>INTRO TO DIETETICS AND NUTRITION</td>
<td>2</td>
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<tr>
<td></td>
<td>To acquaint the students interested in a career in dietetics or</td>
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<td></td>
<td>nutrition with the professions, roles, responsibilities, and</td>
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<td></td>
<td>opportunities afforded them. Required by all entering first-year</td>
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<td>students and open to students interested in food and nutrition</td>
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<td></td>
<td>careers.</td>
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<tr>
<td>HSS 114</td>
<td>INTRODUCTION TO PHYSICAL THERAPY</td>
<td>2</td>
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<tr>
<td></td>
<td>An introductory seminar discussing the history, present and future,</td>
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<td>of physical therapy. A successful undergraduate preparation for</td>
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<td>entrance into this highly selective graduate program will be this</td>
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<td></td>
<td>field's secondary focus.</td>
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<tr>
<td>HSS 117</td>
<td>PERSONAL AND COMMUNITY HEALTH</td>
<td>3</td>
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<tr>
<td></td>
<td>Survey of health science and principles of preventive medicine as</td>
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<td></td>
<td>introduction to other courses in health and sport science.</td>
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<tr>
<td>HSS 130</td>
<td>PHYSICAL EDUCATION ACTIVITIES</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Selected courses offered to all University students.</td>
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<tr>
<td>HSS 182</td>
<td>AEROBIC CONDITIONING</td>
<td>2</td>
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<tr>
<td></td>
<td>Aerobic conditioning techniques developed primarily through running</td>
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<td></td>
<td>programs. Required for EES and EDP majors.</td>
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<tr>
<td>HSS 184</td>
<td>CONDITIONING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>A course designed for Exercise Science and Pre-Physical Therapy</td>
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<tr>
<td></td>
<td>majors to introduce them to concepts and techniques of aerobic</td>
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<td></td>
<td>conditioning using exercise devices such as treadmills, bicycle</td>
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<tr>
<td></td>
<td>ergometers, stairmasters, rowing machines, etc.</td>
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<tr>
<td>HSS 185</td>
<td>RHYTHM, DANCE, GAMES &amp; GYMNASTICS</td>
<td>2</td>
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<tr>
<td></td>
<td>Theory and practice of Educational Games, Educational Dance, and</td>
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<td></td>
<td>Educational Gymnastics.</td>
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<tr>
<td>HSS 187</td>
<td>TEAM SPORTS</td>
<td>2</td>
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</tbody>
</table>
Content and pedagogical content knowledge of selected team sports will be presented. Overview of history, rules, officiating, strategy, and skill practice shall be provided. Students will also gain competence in the instruction, adaptation, modification, and administration of the selected team sports.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>HSS 200</td>
<td>MOTOR LEARNING DEVELOPMENT</td>
<td>2</td>
<td>Investigation of fundamental principles of human movement. Physical and psychological variables essential to motor learning are considered.</td>
</tr>
<tr>
<td>HSS 210</td>
<td>INTRODUCTORY FOODS</td>
<td>2</td>
<td>Study of scientific principles applied to the processing and preparation of food to maintain nutritional quality and aesthetic value.</td>
</tr>
<tr>
<td>HSS 210L</td>
<td>INTRODUCTORY FOODS LABORATORY</td>
<td>2</td>
<td>Course to accompany HSS 210 lecture.</td>
</tr>
<tr>
<td>HSS 220</td>
<td>ADAPTED PHYSICAL EDUCATION</td>
<td>3</td>
<td>A course to prepare prospective teachers to adapt a physical education program so all children and youth can successfully participate in activity programs. Study of the atypical child in order to organize and administer a program which will meet individual needs.</td>
</tr>
<tr>
<td>HSS 223</td>
<td>BASIC MOVEMENT EDUCATION</td>
<td>3</td>
<td>The child-centered approach to learning in physical education designed to help children develop greater understanding of themselves as movers, the space in which to move and the factors affecting efficient movement. Developmentally appropriate motor skills, movement concepts and activities (games, dance and gymnastics) are presented as the curriculum model K-12.</td>
</tr>
<tr>
<td>HSS 226</td>
<td>COMPUTER APPLICATIONS IN SPORT SCIENCE</td>
<td>3</td>
<td>The course focuses on understanding the practical uses of computers as a tool in exercise science and sport management activities. Emphasis is placed on demonstrated proficiency in word processing, spreadsheets, graphics, Power Point, and databases and the evaluation and use of specific exercise science and sport management packages. Emphasis will be on use of IBM compatible computers.</td>
</tr>
<tr>
<td>HSS 230</td>
<td>BASIC ATHLETIC TRAINING</td>
<td>3</td>
<td>Application of principles and methods involved in prevention, care, and treatment of athletic injuries.</td>
</tr>
<tr>
<td>HSS 250</td>
<td>PRINCIPLES OF SPORT MANAGEMENT</td>
<td>3</td>
<td>Examination of the nature of management from theoretical and practical perspectives in a variety of sport settings. Focus on managerial functions and skills.</td>
</tr>
<tr>
<td>HSS 252</td>
<td>EVENT MANAGEMENT</td>
<td>2</td>
<td>The purposes, types, organization, administration and evaluation of events as they relate to sport, facility and community environments.</td>
</tr>
<tr>
<td>HSS 255</td>
<td>SPORT MANAGEMENT PRACTICUM</td>
<td>2</td>
<td>The sport management practicum and seminar is designed for students to gain insight into a wide array of field experiences within this discipline. Students are given choices of field work within a variety of sport and recreation settings. In addition, a weekly seminar is required as part of the practicum experience.</td>
</tr>
<tr>
<td>HSS 275</td>
<td>HISTORY OF PHYSICAL EDUCATION AND SPORT</td>
<td>3</td>
<td>Study of the historical development of physical education and sport as it relates to significant events in the history of Western civilization.</td>
</tr>
<tr>
<td>HSS 285</td>
<td>SPORT MANAGEMENT FIELD EXPERIENCE</td>
<td>2</td>
<td>This experience is done after completion of HSS 255. 150 clock hours need to be completed for the 3 semester hour experience.</td>
</tr>
</tbody>
</table>

For more information, visit: [http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001800&c=-1&p=-1](http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001800&c=-1&p=-1)
HSS 295 NUTRITION AND HEALTH
Study of the nutrient needs of humans and of their choices as modified by socioeconomic, cultural, and life cycle factors.

HSS 300 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION
Study of the methods and skills essential for effective teaching in physical education.
Prerequisite(s): HSS 200.

HSS 302 GLOBAL AND CULTURAL NUTRITION
Study of the relationship among consumers, the food; the historical evolution of food; socioeconomic influences on food.

HSS 303 FOOD SERVICE SYSTEMS MANAGEMENT
Study of food service organizations and management. Demonstrate the importance of menu as the primary control of the food service system - factors affecting menu planning, customer satisfaction, and management decisions.

HSS 304 INSTITUTIONAL QUANTITY FOOD BUYING
To study quantity food production in foodservice system through application of principles for determining needs and procuring, producing and storing foods in quantity, along with institutional equipment selection, maintenance, and layout.
Prerequisite(s): HSS 210, 210L; a Multipurpose Computer Account (AKA Dial-in/PPP/Fiyernet account); basic IBM compatible computer skills.

HSS 305 HUMAN ANATOMY
Study of the human body with emphasis on the interdependent relationships of structure and function.

HSS 305L HUMAN ANATOMY LABORATORY
Hands-on study of the human body with emphasis on the interdependent relationships of structure and function through the use of interactive anatomy.

HSS 306 HUMAN PHYSIOLOGY
Study of the functions of body systems. Cell physiology, structural contributions or limitations, concepts of biochemistry, control of functions, physiological limits of function, and examples of pathologic developments.

HSS 307 HUMAN PHYSIOLOGY
A survey of the functions of body systems with respect to general cell physiology and specialization into tissues, structural contributions to tissue/organ physiology, pertinent concepts of biochemical physiology, tissue metabolism and energy/food requirements during stress and exercise, recent research into control and regulation of functions of major systems, physiologic limitations outside environmental ranges, and selected examples of pathophysiology.
Prerequisite(s): CHM 123, CHM 124, HSS 305.

HSS 308 SCIENCE OF HUMAN MOVEMENT
Provides students with information and skills that will enhance their understanding of the scientific principles of human movement. Topics surveyed include: anatomy, physiology, mechanics, physics, nutrition, and biochemistry, as well as their relationship to health, fitness, and athletic performance.

HSS 310 COACHING BASKETBALL
The theory, skills, strategies, and methods of coaching basketball. First term, each year. Elective.

HSS 312 COACHING FOOTBALL
The theory, skills, strategies, and methods of coaching football. Second term, each year. Elective.

HSS 314 COACHING BASEBALL
The theory, skills, strategies, and methods of coaching baseball. Elective.
HSS 316 COACHING SOCCER
The theory, skills, strategies, and methods of coaching soccer. Elective.

HSS 317 COACHING TRACK AND FIELD
The theory, skills, strategies, and methods of coaching track and field. Elective.

HSS 318 TEACHING AND COACHING GOLF
The theory, skills, strategies, and methods of teaching and/or coaching golf.

HSS 320 ESSENTIALS OF STRENGTH CONDITIONING
A course designed to prepare students for the certified strength and conditioning specialist (NSCA) exam. Topics included will pertain to muscular strength and endurance conditioning, physiology of strength conditioning, muscular strength testing and evaluation, and organization/administration of strength training programs.

HSS 324 METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION
Basic theory, techniques, and methods for conducting a program for elementary students. Prerequisite(s): HSS 223, junior standing.

HSS 333 HEALTH, NUTRITION, AND SAFETY FOR THE YOUNG CHILD
This class is designed to emphasize the physical, nutritional, emotional, social, environmental health, and safety of the young child. The class emphasizes the teacher's role in the health/nutritional maintenance of young children. Class will focus on nutrition, safety, and wellness of the young child by creating a healthful school environment.

HSS 334 CPR FOR CHILDREN
Students register for this course in conjunction with HSS 333

HSS 335 MASSAGE THERAPY
Introduction to bodywork and issues of health and wellness. Laboratory sessions will provide an opportunity to integrate and apply massage knowledge and skill drawn from a variety of healing systems; Swedish Massage, Acupressure, Reflexology and Hydrotherapy. Designed for students in Exercise Science, and Pre-Physical Therapy. Required that students have had Human Anatomy, Human Physiology.

HSS 344 OUTDOOR EDUCATION
Action seminar to familiarize teachers and recreation leaders with the curricula, teaching techniques, and skills for good outdoor education programs.

HSS 349 FINANCING SPORT OPERATIONS
The financial concepts and theories and their application in the professional intercollegiate, recreational and commercial sport industries. Topics include revenues and expenses of professional, intercollegiate, and private sport industries; issues affecting these revenues and expenses; fundraising at the intercollegiate level; ownership in sport; and public and private funding for non-profit sports programs.

HSS 351 FACILITY MANAGEMENT
The processes of planning, constructing, equipping, and maintaining sport facilities are investigated in this course. In addition, the multi-faceted nature of event management is examined in a variety of sport settings.

HSS 353 SPORTS MEDIA
This is the study and the appraisal of the media and the role that it plays in contemporary sports. Attention is also given to preparation and evaluation of media sports presentations.

HSS 354 SPORT IN THE GLOBAL COMMUNITY
Analyze the growth and development of sport throughout the global community with an emphasis on the structure and organization of sport. Additionally, the production of major sport events, such as the Olympics and World Cup Soccer Tournament, will be examined. Prerequisite(s): HSS 250.
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<tr>
<th>Course Code</th>
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<tr>
<td>HSS 356</td>
<td>HR MANAGEMENT IN HEALTH AND SPORT</td>
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<td></td>
<td>This course is an overview of leadership</td>
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<td>and human resources management. The course</td>
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<td>examines the techniques, policies,</td>
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<td>processes, strategies, and practices</td>
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<td>used by health-related and sport</td>
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<td>companies and managers to effectively and</td>
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<td>efficiently utilize human resources.</td>
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<td>HSS 357</td>
<td>SPORTS MARKETING</td>
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<td>Course content is designed to give</td>
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<td></td>
<td>students an understanding of marketing</td>
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<td>principles applied to sport, sport</td>
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<td>events, and sport products. Marketing</td>
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<td>strategies including the sales,</td>
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<td>promotions, and advertising of sport will</td>
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<td>be emphasized.</td>
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<td>HSS 361</td>
<td>HEALTH CONSUMERISM</td>
<td>2</td>
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<tr>
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<td>Sorting fad from fact in using health</td>
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<td>products and services from the present</td>
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<td>market-includes fad diets, nutrition</td>
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<td>nonsense, survey of medical hoaxes,</td>
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<td>misleading advertising and protection that</td>
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<td></td>
<td>is available to all health consumers.</td>
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<td>Research into current fads and frauds and</td>
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<td>exposure of health myths and misconceptions</td>
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<td>is included.</td>
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<td>HSS 373</td>
<td>STRESS MANAGEMENT</td>
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<td>Examination of life's stressors,</td>
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<td>utilization of reduction techniques, and</td>
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<td>assisting others with the management of</td>
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<td>stress. Special attention to controlling</td>
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<td></td>
<td>stress in the school setting.</td>
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<tr>
<td>HSS 400</td>
<td>PHYSICAL EDUCATION WORKSHOPS</td>
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<tr>
<td></td>
<td>Various workshops will be conducted</td>
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<td>depending upon the needs of the clientele.</td>
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<td>HSS 401</td>
<td>ADVANCED NUTRITION</td>
<td>3</td>
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<tr>
<td></td>
<td>Extension of the student's knowledge of</td>
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<td></td>
<td>the science of nutrition, stressing the</td>
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<td>metabolism of food constituents and recent</td>
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<td></td>
<td>advances in the field of nutrition.</td>
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<td><strong>Prerequisite(s):</strong> (BIO 403 or HSS 307);</td>
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<td>CHM 314; HSS 295.</td>
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<td>HSS 402</td>
<td>NUTRITION FOR THE AGING ADULT</td>
<td>2</td>
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<td>The study of the process of aging through</td>
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<td>adulthood. This will focus on the changes</td>
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<td>in nutritional needs during the aging</td>
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<td>process. Attention will be paid to the</td>
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<td>community resources available to help</td>
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<td>provide optimum nutrition to healthy</td>
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<td>people as they age.</td>
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<td>HSS 404</td>
<td>COACHING INTERNSHIP</td>
<td>1-3</td>
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<tr>
<td></td>
<td>Practical coaching experience working</td>
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<td>in local schools with interscholastic</td>
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<td>teams. Elective.</td>
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<td>HSS 405</td>
<td>TESTS AND MEASUREMENTS IN SPORT SCIENCE</td>
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<tr>
<td></td>
<td>A direct relationship of tests and</td>
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<td>measurements to the field of sport</td>
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<td></td>
<td>science.</td>
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<tr>
<td>HSS 406</td>
<td>NUTRITION FOR MOTHER AND CHILD</td>
<td>2</td>
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<tr>
<td></td>
<td>Physiologic and biochemical principles and</td>
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<td>results of current research are used to</td>
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<td>build a foundation for exploration of</td>
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<td>nutrition from the stages of growth and</td>
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<td>development, to maturation, and aging.</td>
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<td>These serve as the basis for consideration</td>
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<td>of the social, economic, physiologic, and</td>
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<td></td>
<td>lifestyle factors that influence nutrition</td>
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<td>status, food choices, and specific life</td>
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<td>state concerns. Particular attention is</td>
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<td>paid to using the principles of nutrition</td>
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<td>in planning and implementing</td>
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<td></td>
<td>recommendations for dietary change.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> HSS 295, 305.</td>
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<tr>
<td>HSS 408</td>
<td>PHYSIOLOGY OF EXERCISE</td>
<td>2</td>
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<tr>
<td></td>
<td>Detailed study of the effects of exercise</td>
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<td>on human functions, as a basis for the</td>
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<td>study of physical fitness, motor skills,</td>
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<td>and athletic training.</td>
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<td><strong>Prerequisite(s):</strong> HSS 305; (HSS 306 or</td>
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<td>307).</td>
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<td>HSS 408L</td>
<td>PHYSIOLOGY OF EXERCISE LABORATORY</td>
<td>1</td>
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<td>Course to accompany HSS 408. Weekly two-</td>
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<td>hour laboratory stressing practical</td>
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<td>applications of exercise physiology.</td>
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<td><strong>Prerequisite(s):</strong> HSS 305, 306 or 307</td>
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<tr>
<td>HSS 409</td>
<td>KINESIOLOGY</td>
<td>2</td>
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</tbody>
</table>
Investigation and analysis of human motion based on anatomical, physiological, and mechanical principles. **Prerequisite(s):** HSS 305; (HSS 306 or 307).

**HSS 409L KINESIOLOGY LABORATORY**  
Course to accompany HSS 409. Weekly two-hour laboratory stressing the practical application of kinesiology.

**HSS 417 STUDENT TEACHING**  
Teaching under close supervision in the specialized subject area in both elementary and high school grades for a minimum of twelve weeks. A seminar is held once a week. **Prerequisite(s):** Formal admission a full semester in advance.

**HSS 422 EXERCISE FOR SPECIAL POPULATIONS**  
A course designed to prepare prospective exercise specialists to adapt physical education and exercise so that all individuals can successfully participate in activity programs. A study of various disabilities and conditions in order to organize and administer a program which will meet individual needs.

**HSS 428 HEALTH RESEARCH AND EVALUATION**  
An introduction to statistical analysis and research methodology. Emphasis will be on the use of these in determining health statistics, designing and evaluating health studies, accessing data banks; collection, analysis and interpretation of health statistics.

**HSS 431 NUTRITION FOR EXERCISE AND SPORT**  
Investigation of current research in the nutritional assessment of the athlete. Topics include dietary needs, fluid replenishment, pre-game meals, and "fad" diets for the athlete. **Prerequisite(s):** HSS 295.

**HSS 435 EXERCISE ECG**  
Evaluation of exercise electrocardiograms from healthy persons. **Prerequisite(s):** HSS 307, 408, 408L.

**HSS 448 SAFETY AND THE LAW IN PHYSICAL EDUCATION AND SPORTS**  
Study of the legal aspects of physical education and athletics. Analysis of specific court cases. Formulation of safety policies.

**HSS 455 SELECTED STUDIES IN PHYSICAL EDUCATION**  
Investigating, analyzing, and reporting on a problem in physical education. **Prerequisite(s):** Permission of department chairperson.

**HSS 456 ADVANCED NUTRITIONAL BIOCHEMISTRY**  
Integration and application of principles of physiology, nutrition and biochemistry to the processes of metabolic function.

**HSS 465 PHYSICAL THERAPY SEMINAR**  
Addresses current issues facing prospective and present physical therapists in a reforming healthcare industry.

**HSS 470 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION**  
Principles and procedures for curriculum construction and revision. Study of philosophies (institutional, professional, and personal) and their relationship to curriculum development.

**HSS 485 SPORT MANAGEMENT INTERNSHIP**  
Work experience carried out under the auspices and supervision of the sports management staff. Application and permission of director of Sports Management program required.

**HSS 490 EXERCISE SCIENCE INTERNSHIP-ON CAMPUS**  
Work experience carried out under the auspices and supervision of the University of Dayton Wellness Program staff. Application and permission of director of Exercise Science and Fitness Management program required.

**HSS 491 EXERCISE SCIENCE INTERNSHIP-OFF CAMPUS**  

Work experience carried out under the auspices of an industrial, commercial, educational, government or health agency-related wellness program. Application and permission of director of Exercise Science and Fitness Management program required.

HSS 495  MEDICAL NUTRITION THERAPY

Includes the study of professional development assessment, nutrition care planning and the appropriate medical nutrition physiology in humans. Designed for those planning to become a registered dietitian.

**Prerequisite(s):** (BIO 403 or HSS 307); CHM 314; HSS 401.
School of Education and Allied Professions

(HSS) Health and Sport Science

You are currently viewing Food and Nutrition - Dietetics, an academic area in Health and Sport Science. To view academic information for Health and Sport Science, click here.

(EHA) Food and Nutrition - Dietetics (Collapse Description)

The Food and Nutrition Program offers two majors: didactic program in dietetics (EHA) and nutrition and fitness (EHN). The curriculum of both programs is an integration of the humanities and arts, social sciences, and the physical and life sciences. The study of food and nutrition includes the science of food and the role of nutrients in the body to promote and maintain health.

The didactic program in dietetics (EHA) curriculum includes courses in food management and medical nutrition therapy for specific pathology. The nutrition and fitness (EHN) curriculum offers classes from both the nutrition and exercise curriculum. Those who select the EHN major may take additional classes to qualify them to apply for a dietetic internship following graduation. Both programs challenge the learner to strive for excellence.

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science with a major in Food and Nutrition - Option I - Didactic Program Dietetics (EHA)

This program, which leads to a Bachelor of Science degree, prepares students who wish to become registered dietitians. It has a strong science component.

During the last semester of their senior year students make application to a dietetic internship program. These post-baccalaureate programs are usually eight to eleven months in length and will qualify the student to sit for examination to become registered dieticians. Acceptance into the internship program is highly competitive and is based on the student's grades, work experience, recommendation letters and extracurricular activities. Selection is made through computer matching.

Costs of the didactic program in dietetics may also include laboratory fees, the purchase of a lab coat and membership fees for the Student Dietetic Association and the American Dietetic Association. No liability insurance is needed since the students in this program do not participate in a practice setting.

The didactic program in dietetics is currently granted developments accreditation by the Commission on Accreditation for Dietetics Education (CADE), Suite 2000, 120 South Riverside Plaza, Chicago, Illinois 60606, Phone: (900) 877-1600.

Sem. Hrs.

First-Year

First-Term

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<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
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<td>BIO 151</td>
<td>CONCEPTS OF BIOLOGY I</td>
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<td>CMM 110</td>
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<td>HSS 113</td>
<td>INTRO TO DIETETICS AND NUTRITION</td>
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<td>HSS 210-210L</td>
<td>INTRODUCTORY FOODS (HSS 210)</td>
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<td>INTRODUCTORY FOODS LABORATORY (HSS 210L)</td>
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Second-Term

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<td>BIO 152</td>
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<td>CMM 111 or 112</td>
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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001806&c=0&p=-1 7/10/2012
### Sophomore-Year

#### First-Term

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<td>PRINCIPLES OF MICROECONOMICS</td>
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<td>HSS 295</td>
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<tr>
<td>HSS 304</td>
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<td>MTH 207</td>
<td>INTRODUCTION TO STATISTICS</td>
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### Junior-Year

#### First-Term

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<td>HSS 307</td>
<td>HUMAN PHYSIOLOGY</td>
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<td>HSS 356</td>
<td>HR MANAGEMENT IN HEALTH AND SPORT</td>
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<tr>
<td>HSS 431</td>
<td>NUTRITION FOR EXERCISE AND SPORT</td>
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<tr>
<td>HSS 303</td>
<td>FOOD SERVICE SYSTEMS MANAGEMENT</td>
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<td>NUTRITION FOR THE AGING ADULT</td>
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<td>HSS 406</td>
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<td>ORGANIZATIONAL BEHAVIOR</td>
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<td>PSY 431</td>
<td>INTERVIEWING AND COUNSELING</td>
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### Senior-Year

#### First-Term

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<td>GLOBAL AND CULTURAL NUTRITION</td>
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<td>ADVANCED NUTRITION</td>
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<td>HST 340 or 341</td>
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<td>or 344</td>
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#### Second-Term

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<td>ADVANCED NUTRITIONAL BIOCHEMISTRY</td>
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<td>HSS 495</td>
<td>MEDICAL NUTRITION THERAPY</td>
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</table>
Bachelor of Science with a major in Nutrition and Fitness - Option II - Nutrition (EHN)

Students may fulfill medical or dental schools' requirements, or the Didactic Program in Dietetics, with additional courses.

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<th>First-Year</th>
<th>Sem. Hrs.</th>
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<td>BIO 151</td>
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<td>INTRODUCTION TO THE UNIVERSITY</td>
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<td>HSS 122</td>
<td>INTRODUCTION TO EXERCISE SCIENCE AND FITNESS MANAGEMENT</td>
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<td>HSS 210-210L</td>
<td>INTRODUCTORY FOODS (HSS 210)</td>
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<td>or PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY (PHL 103)</td>
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<tr>
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<td>INTRODUCTION TO RELIGION (REL 103)</td>
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<td>CHM 123-123L</td>
<td>GENERAL CHEMISTRY (CHM 123)</td>
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<td>or CHM 123L</td>
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<td>ENG 102</td>
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<td>HSS 113</td>
<td>INTRO TO DIETETICS AND NUTRITION</td>
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<tr>
<td>HSS 226</td>
<td>COMPUTER APPLICATIONS IN SPORT SCIENCE</td>
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<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<tr>
<td>or PHL 103</td>
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<tr>
<td>or REL 103</td>
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| Sophomore-Year | 17 |
| First-Term | 17 |
| CHM 124-124L | GENERAL CHEMISTRY (CHM 124) | 4 |
| or CHM 124L | GENERAL CHEMISTRY LABORATORY (CHM 124L) | 3 |
| CMM 110    | GROUP DECISION MAKING | 1 |
| CMM 111 or 112 | INFORMATIVE PUBLIC SPEAKING (CMM 111) | 1 |
| or CMM 112 | PERSUASIVE PUBLIC SPEAKING (CMM 112) | 3 |
| HSS 182    | AEROBIC CONDITIONING | 2 |
| HSS 295    | NUTRITION AND HEALTH | 3 |
| HSS 305    | HUMAN ANATOMY | 3 |
| MTH 207    | INTRODUCTION TO STATISTICS | 3 |
| Second-Term | 16 |
| BIO 152    | CONCEPTS OF BIOLOGY II | 3 |
| HSS 184    | CONDITIONING | 1 |
| HSS 307    | HUMAN PHYSIOLOGY | 3 |
| HSS 320    | ESSENTIALS OF STRENGTH CONDITIONING | 3 |
| PSY 101    | INTRODUCTORY PSYCHOLOGY | 3 |
| Art Studies elective | 3 |

<p>| Junior-Year | 16 |
| First-Term | 16 |
| ANT 150    | CULTURAL ANTHROPOLOGY | 3 |
| CHM 313    | ORGANIC CHEMISTRY | 3 |
| CMM 113    | INTERVIEWING | 3 |
| HSS 405    | TESTS AND MEASUREMENTS IN SPORT SCIENCE | 1 |
| HSS 409-409L | KINESIOLOGY (HSS 409) | 3 |
| or HSS 409L | KINESIOLOGY LABORATORY (HSS 409L) | 3 |
| HST 340 or 341 | HISTORY OF SCIENCE (HST 340) | 3 |
| or 344 | HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY (HST 341) | 3 |
| or 344 | HISTORY OF SCIENCE, TECHNOLOGY, | 3 |</p>
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<thead>
<tr>
<th>Course Code</th>
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<td>ADVANCED NUTRITION</td>
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<td>NUTRITION FOR MOTHER AND CHILD</td>
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Second-Term: 13-15

Senior-Year

First-Term: 15

Second-Term: 15-20

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History critically studies the past and those key values which have shaped society. History also provides students with a sense of perspective and with the ability to make critical judgments. Those with a sharply honed historical consciousness know that often what appears to be a simple solution to a simple problem will not work because unexpressed historical forces and traditions lie just beneath the surface. Therefore, historical consciousness helps to make the world comprehensible. To be ignorant of history is to be, in a very fundamental way, intellectually defenseless, unable to understand the workings of this or other societies. Thus all totalitarian societies have stringently controlled the study and writing of history. They recognize that a free mind needs to know its past, to debate and discuss how the world came to be as it is, in order to know what to defend and what to change and how to resist imposed ideologies.

Students majoring in history are offered a flexible curriculum that allows them to have a double major or one or more minors. Students are also strongly encouraged to develop interdisciplinary areas of concentration to meet their interests and vocational goals. Examples of areas of concentration are pre-law, business, international affairs, and historical administration, preservation, and archival management. History majors should consult the department chairperson for a departmental advising brochure and further details. History majors pursue professions in numerous fields including education, law and government, international affairs, archives and museums, communications, and business.

Students in B.A. programs can acquire teacher licensure through the E11A program (See EDT). For details, consult the department chairperson.

A history minor consists of eighteen semester hours.

Faculty
Julius A. Amin, Chairperson
Professors Emeriti: Alexander, Eid, King, Maras, Mathias, Steiner, Taylor, Vines
Professors: Amin, Bednarek, Heitmann, Morman, Paierio, Schweikart
Associate Professors: Cegedan, Carlson, Darrow, Fleischmann, Flockeerie, Trolley, Yungblut
Assistant Professors: Faruqui, Hume, Merithew, Santamarina
Adjunct Professor: Gannon
Lecturer: Adkins

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Arts with a major in History (HST)

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<tr>
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<tr>
<td>HST (103 or 198), 251, 252, 301, 301L</td>
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<td>Select two HST seminars (400-level)</td>
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Liberal Studies Curriculum

- Humanities and Fine Arts
  - Philosophy and Religious Studies | 12 |
  - Literature: English or Foreign Language | 3 |
  - Creative and Performing Arts | 3 |
  - Foreign Language and/or Additional Arts and/or Humanities | 3-9 |
  - Social Sciences | 12 |
  - Mathematics (excludes MTH 102, 204, 205) | 3 |
Communication Competencies  0-9
Introduction to the University: ASI 150  0-1

General Education courses/academic electives to total at least\(^1\) 124

\(^1\)These electives should be distributed so that the student will have taken history (HST) electives in three geographical areas: United States, Europe, and at least one of the following: Africa, Asia, Latin America, Middle East.

\(^2\)Three credits of the seminar requirement may be achieved through the fulfillment of an experiential component earned through completion of three credits of HST 495 Internship.

\(^3\)For History majors, this total should include either 6-8 sem. hrs. in a foreign language or 6 sem. hrs. in quantitative skills courses (e.g., computer science, statistics, or mathematics) beyond the Basic Skills mathematics requirement. Where appropriate, this credit may apply to other requirements as well.

Minor in History (HST)

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<td>HISTORY SCHOLARS’ SEMINAR</td>
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<td>HST 251</td>
<td>AMERICAN HISTORY TO 1865</td>
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<td>AMERICAN HISTORY SINCE 1865</td>
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<td>CAREER DEVELOPMENT IN HISTORY</td>
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Courses (Collapse All Courses)

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<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
<td>3</td>
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<tr>
<td>HST 198</td>
<td>HISTORY SCHOLARS’ SEMINAR</td>
<td>3</td>
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<tr>
<td>HST 251</td>
<td>AMERICAN HISTORY TO 1865</td>
<td>3</td>
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<tr>
<td>HST 252</td>
<td>AMERICAN HISTORY SINCE 1865</td>
<td>3</td>
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<tr>
<td>HST 300</td>
<td>CAREER DEVELOPMENT IN HISTORY</td>
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<tr>
<td>HST 301</td>
<td>RESEARCH METHODS SEMINAR</td>
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<tr>
<td>HST 301L</td>
<td>RESEARCH PAPER</td>
<td>0</td>
</tr>
</tbody>
</table>

Survey of key themes in world history including the social, economic, cultural, political, and environmental forces that shaped the human past throughout the globe.

Study and seminar discussion of selected historical documents dealing with major events and trends in Western civilization since 1715. Open by permission only to first-year students in the Berry Scholars Program.

Survey of the development of the American nation from colonial times to 1865; political trends, economic and social foundations of American institutions. **Prerequisite(s):** HST 103 or equivalent.

Survey of the development of the nation after the Civil War, stressing social, economic, and political problems. **Prerequisite(s):** HST 103 or equivalent.

Exploration of career opportunities open to History majors, with special emphasis on strategic planning for a career, creating a job portfolio, and mastering the practical mechanics of job searching. **Prerequisite(s):** (HST 103 or equivalent); HST 301. **Corequisite(s):** HST 301.

Historical methods, philosophy, and introductory historiography, the last based on the professor's field of specialization. Required for all history majors. **Prerequisite(s):** HST 103 or equivalent.

Requires the satisfactory completion of a research paper of 10-15 pages in length based on original historical research. The paper may be written in a History (HST) course on the 300/400 levels or, with prior permission of the chair, in conjunction with a course in another department or as an Honors Thesis. Required for all History majors.
Prerequisite(s): (HST 103 or equivalent); HST 301.
Corequisite(s): HST 301.

HST 302 HISTORY OF ANCIENT GREECE
Survey of Greek history and culture from the Bronze Age to Alexander the Great.
Prerequisite(s): HST 103 or equivalent.

HST 303 HISTORY OF THE ROMAN REPUBLIC AND EMPIRE
Survey of Roman history with emphasis on the political, social, and institutional evolution of the Roman state and the organization and structure of the Roman Empire.
Prerequisite(s): HST 103 or equivalent.

HST 305 MEDIEVAL EUROPE
European history from the 4th to the 15th century, including birth of Middle Ages; development of Christianity; Byzantine, Islamic, and Carolingian Empires; feudalism; Crusades; rise of universities; birth of national cultures.
Prerequisite(s): HST 103 or equivalent.

HST 307 RENAISSANCE AND REFORMATION
The development of European history from the 14th to the middle of the 17th century. Emphasis on the economic, political, social, and religious aspects of the Renaissance, Protestant Revolution, and Catholic Reformation.
Prerequisite(s): HST 103 or equivalent.

HST 308 SHAKESPEARE'S WORLDS
A concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with ENG 363.
Prerequisite(s): HST 103 or equivalent.

HST 311 OLD REGIME EUROPE
From the later Reformation to the era of the French Revolution: intellectual and cultural development; political, economic, and social trends of the Old Regime.
Prerequisite(s): HST 103 or equivalent.

HST 312 AGE OF DEMOCRATIC REVOLUTIONS
Historical analysis of the ideological, political, social and economic changes of the late 18th and early 19th centuries, emphasizing developments in France and Europe.
Prerequisite(s): HST 103 or equivalent.

HST 313 THE DUAL REVOLUTION AND ITS CONSEQUENCES - EUROPE 1815-1914
Historical analysis of nineteenth century Europe emphasizing the ideological, political, economic and social consequences of the Industrial and French revolutions, commonly known as the Dual Revolution.
Prerequisite(s): HST 103 or equivalent.

HST 314 MODERN EUROPE IN DECLINE - 1890-1945
Historical study of the decline and fall of European civilization from the eve of World War I to the end of World War II, including an examination of political, economic, social, and cultural conditions.
Prerequisite(s): HST 103 or equivalent.

HST 315 EUROPE IN THE POSTWAR ERA—1945 TO THE PRESENT
Historical survey of domestic and foreign politics, economics, society, and culture in postwar Europe (East and West) from 1945 to the present.
Prerequisite(s): HST 103 or equivalent.

HST 316 BEETHOVEN AND HIS ERA
Survey of the music of Ludwig van Beethoven, including orchestral works and chamber music, opera, keyboard and sacred music; and a survey of the historical context in which Beethoven lived and worked—Europe and the Habsburg Empire of the late eighteenth and early nineteenth centuries, and especially Vienna, the Habsburg capital. Beethoven is the culmination of the
High Classic style and also the first of a new generation of Romantic composers.

Prerequisite(s): HST 103 or equivalent.

HST 319 HISTORY OF LONDON
Study of the evolution of London from a small Roman town to the world's first industrial metropolis. Particular attention to social and environmental conditions and the life of the people.

Prerequisite(s): HST 103 or equivalent.

HST 320 EUROPEAN MILITARY HISTORY
Survey of warfare on the European continent from classical Greece through World War II emphasizing military institutions, organization, weapons, and campaigns and the role of the military in society.

Prerequisite(s): HST 103 or equivalent.

HST 321 MODERN FRANCE
French history from the Bourbon Restoration to the present. Emphasis on political, socio-economic, and cultural factors.

Prerequisite(s): HST 103 or equivalent.

HST 322 HISTORY OF ENGLAND
Major forces and trends in the history of England from early medieval times to the present, including their influence on social history and literature.

Prerequisite(s): HST 103 or equivalent.

HST 323 MODERN GERMANY
Analysis of the development of the German state from 1848 through the period of unification, Second Empire, Weimar Republic, Third Reich, the post-World War II Germanies, to the present.

Prerequisite(s): HST 103 or equivalent.

HST 324 COMPARATIVE NATIONALISM
Comparative study of the origins and consequences of national movements throughout the world. Attention given to the historiography of nationalism and the fate of the nation-state idea in a number of temporal, geographic, political and cultural settings.

Prerequisite(s): HST 103 or equivalent.

HST 325 HISTORY OF RUSSIA TO 1860
History of Kievan Russia and Orthodox Christianity, the Mongol Conquest, the rise of autocracy, reforms and rebellions, revolutionary movements, and the rise of the Empire to the Crimean War

Prerequisite(s): HST 103 or equivalent.

HST 326 RUSSIA, THE SOVIET UNION AND BEYOND, 1860-PRESENT
Social, political, and cultural history of Russia from the great reforms of the late empire, through the wars, revolutions, and reconstructions of the Soviet Period, to the present.

Prerequisite(s): HST 103 or equivalent.

HST 327 NATIONAL CULTURES OF THE SOVIET UNION AND ITS SUCCESSOR STATES
The history of the formation of the Soviet Union and of national and cultural relations between the Russians and their Slavic, Baltic, Caucasus, Central Asian, and Siberian neighbors.

Prerequisite(s): HST 103 or equivalent.

HST 328 HISTORY OF EASTERN EUROPE
Survey of the history of the nations lying between Germany and the Soviet Union, the Baltic and Aegean Seas, stressing medieval and early modern background as a foundation of contemporary history.

Prerequisite(s): HST 103 or equivalent.

HST 330 HISTORY OF SOUTHEAST ASIA
Brief review of the early historical development of East Asia; study of China and Japan in the 19th and 20th centuries, emphasizing political, religious, cultural, and economic development.

Prerequisite(s): HST 103 or equivalent.

HST 331 HISTORY OF INDIA
Survey of the development of civilization on the Indian subcontinent from the first extant records (c. 2500 BCE) to post-Independence modern India in connection with the B.A. Program in Philosophy.

**Prerequisite(s):** HST 103 or equivalent.

HST 332  MODERN CHINA AND JAPAN
Study of the economic, political, social, and cultural developments of modern China and Japan from the 18th century to the present.

**Prerequisite(s):** HST 103 or equivalent.

HST 333  THE MIDDLE EAST, NINETEENTH AND TWENTIETH CENTURIES
Survey of the Ottoman Empire, Iran, Egypt, and the modern states of the Middle East, emphasizing the development of nationalism and the area's role in international politics.

**Prerequisite(s):** HST 103 or equivalent.

HST 334  HISTORY OF THE PALESTINIAN-ISRAEL CONFLICT
Study of the history of the Palestinian-Israeli conflict from its beginnings in the late nineteenth century up to the present, with emphasis on a variety of historical interpretations of the actions and perspectives of the different parties involved.

**Prerequisite(s):** HST 103 or equivalent.

HST 335  HISTORY OF SOUTH ASIA
Survey of the major political, religious, cultural and economic developments on the Indian subcontinent over the past 500 years.

**Prerequisite(s):** HST 103 or equivalent.

HST 336  HISTORY OF AFRICA TO 19TH CENTURY
Study of African history from the emergence of Africa's ancient kingdoms to the end of the trans-Atlantic slave trade in the nineteenth century.

**Prerequisite(s):** HST 103 or equivalent.

HST 337  HISTORY OF AFRICA-19TH CENTURY TO THE PRESENT
Emphasis: colonialism and its impact, the growth of nationalism and the problems of contemporary Africa.

**Prerequisite(s):** HST 103 or equivalent.

HST 338  STATE AND SECESSION IN SOUTH ASIA
Survey of the failure of the nation-state and the rise of secessionist movements in South Asia since 1947.

**Prerequisite(s):** HST 103 or equivalent.

HST 339  HISTORY OF SOUTH AFRICA
Study of South African society with emphasis on historical interpretations of the origins of segregation, economic growth, nationalism, Apartheid, Bantusans, and other issues of contemporary significance.

**Prerequisite(s):** HST 103 or equivalent.

HST 340  HISTORY OF SCIENCE
Survey of the development of science from its origins in the ancient world to the present.

**Prerequisite(s):** HST 103 or equivalent.

HST 341  HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY
Historical examination of the interaction of science, technology, and society from the Middle Ages to the present.

**Prerequisite(s):** HST 103 or equivalent.

HST 342  ENVIRONMENTAL HISTORY OF THE AMERICAS
A comparison and contrast of the histories of conservatism and environmentalism in the United States, Canada and Latin America.

**Prerequisite(s):** HST 103 or equivalent.

HST 343  HISTORY OF CIVIL ENGINEERING
Historical study of the development of civil engineering from the origins in the ancient world to the present.

**Prerequisite(s):** HST 103 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 344</td>
<td>HISTORY OF SCIENCE, TECHNOLOGY, AND THE MODERN CORPORATION</td>
<td>3</td>
<td>Historical study of the emergence of 20th-century science-based industry.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 346</td>
<td>HISTORY OF AMERICAN AVIATION</td>
<td>3</td>
<td>This course will examine the influence of aviation on the American culture, economy, and military. It will also highlight the development of aviation/aerospace technology.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 347</td>
<td>SEX, RACE, &amp; SCIENCE</td>
<td>3</td>
<td>Examines the development of scientific research on sex, race, and human nature focusing especially on the biological and the human sciences. Topics will include race science, the study of sex and sexuality, evolutionary accounts of human development, and relations between science and society from 1700.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 349</td>
<td>TECHNOLOGY AND THE CULTURE OF WAR</td>
<td>3</td>
<td>Investigation of the role of invention and engineering as it has been related to defense and war throughout the ages, focusing on the interrelationship of policy, strategy, organization, and technology from a global perspective.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 351</td>
<td>AMERICAN WOMEN'S AND GENDER HISTORY</td>
<td>3</td>
<td>Historical study of the changing roles of women in American society, including examination of men's and women's gender roles and the ways in which social, cultural, political, economic, legal, and political factors shape and change gender roles.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 352</td>
<td>HISTORY OF THE AMERICAN FAMILY</td>
<td>3</td>
<td>Survey of the historical development of American family life from the colonial period to the present.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 353</td>
<td>HISTORY OF WOMEN IN EUROPEAN SOCIETIES</td>
<td>3</td>
<td>Study of the changing roles of women in European societies from the roots of industrialization to the present.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 354</td>
<td>HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST</td>
<td>3</td>
<td>Study of the history of the evolving roles and status of women in Middle Eastern societies, from the early modern period to present.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 355</td>
<td>AMERICAN URBAN HISTORY</td>
<td>3</td>
<td>Historical analysis of community life in American society: the nature and development of small towns, cities, and suburbs; communal experience, social organizations, and political culture.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 356</td>
<td>COMPARATIVE HISTORY OF WOMEN IN THE THIRD WORLD</td>
<td>3</td>
<td>Study of the comparative histories of women in Third World societies from a global perspective, using specific case studies of women in different societies around the world.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 357</td>
<td>LATIN AMERICA IN THE TWENTIETH CENTURY</td>
<td>3</td>
<td>Intensive examination of revolution and reaction in today's Latin America and the implications for those who formulate U.S. foreign policy.</td>
<td>HST 103 or equivalent</td>
</tr>
<tr>
<td>HST 358</td>
<td>SOCIAL AND CULTURAL HISTORY OF LATIN AMERICA</td>
<td>3</td>
<td>Survey of social and cultural history of Latin America and the Caribbean from pre-Columbian times to the present. Emphasis on the interaction between the European colonizer and the Amerindian and African peoples of the hemisphere.</td>
<td>HST 103 or equivalent</td>
</tr>
</tbody>
</table>
HST 360  U.S. LEGAL AND CONSTITUTIONAL HISTORY I
An analysis of the major developments in American legal and constitutional history from colonial beginnings through the Civil War. Emphasis on the relationship between the Constitution, the law, and lawyers, on the one hand, and America's economic, social and political developments, on the other. 
Prerequisite(s): HST 103 or equivalent.

HST 361  U.S. LEGAL AND CONSTITUTIONAL HISTORY II
An analysis of the major developments in American legal and constitutional history from the Reconstruction era to the present. Emphasis on the relationship between the Constitution, the law, and lawyers, on the one hand, and America's economic, social, and political developments, on the other. 
Prerequisite(s): HST 103 or equivalent.

HST 365  AMERICAN FILMS AS HISTORY
Study of the development of American values, myths, institutions, and perspectives through the use of films as a primary source.
Prerequisite(s): HST 103 or equivalent.

HST 369  CIVIL WAR AND RECONSTRUCTION
Remote and immediate causes of the Civil War; problems of North and South during the war; consequences of the war; efforts to create a new Union, 1865 to 1877; problems caused by those efforts. 
Prerequisite(s): HST 103 or equivalent.

HST 370  ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES
Survey and analysis of American economic history, 1600-present, primarily through a study of American business institutions and leaders. Includes analysis of major economic theories of history as well as case studies of entrepreneurs. 
Prerequisite(s): HST 103 or equivalent.

HST 372  HISTORY OF RELIGION IN THE UNITED STATES
Survey of religion in the United States from the colonial era to the present. Particular attention to the interaction of religion with other aspects of American society and culture. 
Prerequisite(s): HST 103 or equivalent.

HST 373  AMERICAN MILITARY HISTORY
Survey of American military affairs, including military, naval, and air campaigns, from early settlement to the present. 
Prerequisite(s): HST 103 or equivalent.

HST 374  IRELAND AND AMERICA
Study of the cultural-historical background of both Scotch-Irish and Celtic Irish immigrants to America and how they influenced the varying reactions of the dominant Anglo-Saxon Protestantism of America. 
Prerequisite(s): HST 103 or equivalent.

HST 375  HISTORY OF U.S. FOREIGN RELATIONS
Foundations of foreign relations since 1750; the expansion of foreign relations during the continental expansion of the 19th century and the beginning of the extra-continental empire in 1898; special emphasis on the emergence of multifaceted and interconnected global foreign relations after 1898. 
Prerequisite(s): HST 103 or equivalent.

HST 376  SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
Social and cultural development of the American people: growth of national spirit, impact of expansion, conflict over slavery, and problems of industrialization and urbanization. 
Prerequisite(s): HST 103 or equivalent.

HST 377  CONTEMPORARY AMERICAN HISTORY
The immediate background of contemporary political, social, and economic problems, beginning with the impact of World War II on the United States. 
Prerequisite(s): HST 103 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 378</td>
<td>HISTORY OF GLOBAL IMMIGRANTS TO THE UNITED STATES</td>
<td>Survey of the impact immigrants have had on the social, political, cultural, and economic life in the United States from the colonial period to the present.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 380</td>
<td>NATIVE AMERICAN HISTORY</td>
<td>Historical and descriptive survey of the native peoples of North America.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 382</td>
<td>HISTORY OF MEXICO</td>
<td>A survey of Mexican History from pre-Columbian civilization to the present.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 383</td>
<td>HISTORY OF THE CARIBBEAN</td>
<td>Study of the cultural, social, economic, and political history of the islands and the northern shore of South America in modern times, stressing areas that have gained independence or autonomy.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 384</td>
<td>ECONOMIC HISTORY OF LATIN AMERICA</td>
<td>Examination of the integration of Latin America into the world trading system and analysis of the Twentieth Century's successes and failures of export-led growth and industrialization.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 385</td>
<td>THE ATLANTIC WORLD, 1492-1800</td>
<td>A comparative look at the people and cultures of Europe, Africa and the Americas who collaborated in the colonization of the Americas. Topics to be covered will include: slavery, missionary work, virgin soil epidemics, frontier wars, gender and the invention of racial categories.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 391</td>
<td>AMERICAN ARCHITECTURAL HISTORY AND PRESERVATION</td>
<td>A career-oriented course offering a theoretical background in historical preservation and techniques used in identification, research, and recording of historic landmarks worthy of preservation as part of the community heritage.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 398</td>
<td>HISTORY OF BLACKS IN THE UNITED STATES, 1526-1900</td>
<td>Study of the saga of black people in the U.S. from 1526 until 1900.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 399</td>
<td>HISTORY OF BLACKS IN THE UNITED STATES SINCE 1900</td>
<td>Study of the saga of black people in the U.S. from 1900 to the present.</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 477</td>
<td>HONORS THESIS PROJECT</td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.</td>
<td>Approval of the University Honors Program.</td>
</tr>
<tr>
<td>HST 478</td>
<td>HONORS THESIS PROJECT</td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.</td>
<td>Approval 477 and approval of University Honors Program.</td>
</tr>
<tr>
<td>HST 485</td>
<td>SEMINAR IN AMERICAN HISTORY</td>
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</tbody>
</table>
A reading seminar concentrating on one historical topic in American History for detailed analysis. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 486  SEMINAR IN EUROPEAN HISTORY  3
A reading seminar concentrating on one historical topic in European History for detailed analysis. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 487  SEMINAR IN LATIN AMERICAN HISTORY  3
A reading seminar concentrating on one historical topic in Latin American History for detailed analysis. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 488  SEMINAR IN AFRICAN HISTORY  3
A reading seminar concentrating on one historical topic in African History for detailed analysis. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 490  SEMINAR IN HISTORIOGRAPHY  3
A reading seminar concentrating on the various techniques and philosophies of history by which historians have done historical research. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 493  SEMINAR IN MIDDLE EASTERN HISTORY  3
A reading seminar concentrating on one historical topic in Middle Eastern History for detailed analysis. May be repeated as topics change. **Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 495  INTERNSHIP  3
Practical and professional experience through work with approved organizations such as historical societies, architectural preservation boards, and business firms. **Prerequisite(s):** (HST 103 or equivalent); permission of supervising instructor.

HST 496  INDEPENDENT STUDY  1-6
The study of a special topic to be mutually selected by the student and a history professor. **Prerequisite(s):** (HST 103 or equivalent); permission of chairperson.

HST 497  HONORS TUTORIAL  1-6
The study of a special topic to be selected by the instructor. Applicants will be admitted on the basis of academic record. May be repeated once. **Prerequisite(s):** HST 103 or equivalent.

HST 499  TOPICS IN HISTORY  1-6
Specific subtitles and descriptions to be announced in the composite and posted in the History department office. **Prerequisite(s):** HST 103 or equivalent.
School of Business Administration  
(INB) International Business (Collapse Description)

The international business major is an interdisciplinary major designed to meet the needs of students interested in different facets of the international area. It may be taken as a stand-alone major, in conjunction with a major or minor in a functional business discipline, or with a major or minor in a language. The business curriculum for the major consists of all core business courses (FIN 301, an upper level ECO, MGT 301, MKT 301, OPS 301, MIS 365 & MGT 450) and their prerequisites, five required international business courses: ECO 461 or ECO 450 or ECO 460, FIN 450, MGT 403 or MGT 414, MKT 340 or MKT 440, and INB 450, plus two international electives. These electives may come from the courses listed above, which are not selected as a required course, or from the following international business electives: ACC 412, BAI 301, or MKT 445; 300 or 400 level language courses that are not part of a language major or minor; or from an international course outside the School of Business Administration that is approved by the Director of International Business Programs. One of the two electives is waived if the student has a minor. Both electives are waived if the student has a second major. In addition, competency in a foreign language, which may be demonstrated by successful completion of two semesters of 200 language study or passing of the competency test given by the language department, and an international experience are required. (This may include: participation in a study abroad program; attendance at an educational institution outside the United States; or an international business internship or co-op.)

A minor in international business consists of twenty-four semester hours.

Two certificates in international business are also available for non-business students wishing to demonstrate an interest in international business. One has a marketing or human resource emphasis. The requirements for this are: four core business courses: ACC 207 or 301, ECO 203, MGT 301, and MKT 301, three International Business courses, including, two courses from ECO 460, MGT 403, MGT 414, MKT 340, and MKT 440; plus INB 450. The second certificate has an economics or finance emphasis. The requirements for this are: four or five core business courses: ACC 207 and 208 or ACC 301, ECO 203, 204, and FIN 301, three International Business courses, including, two courses from ECO 461, ECO 450, ECO 460, ACC 412, and FIN 450; plus INB 450.

Other requirements for both certificates include: competency in a foreign language which may be demonstrated by successful completion of two years of college language study or passing of the competency test given by the language department, and an international experience. This may include: participation in a study abroad program; attendance at an educational institution outside the United States; or an international business internship or co-op.

International Business Committee

Sekely, Director of International Business Programs
Burrows (Accounting), Frasca (Economics and Finance), Kanet (MIS and Decision Sciences), King (Management and Marketing)

**Majors/Minors (Collapse All)**

Major/Minor Name
Bachelor of Science with a major in International Business (INB)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>BAI 103L¹</td>
<td>BUSINESS COMPUTING LABORATORY 1</td>
</tr>
<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING 1</td>
</tr>
<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE 1</td>
</tr>
<tr>
<td>CMM 110²</td>
<td>GROUP DECISION MAKING 1</td>
</tr>
<tr>
<td>ENG 101²</td>
<td>COLLEGE COMPOSITION I 3</td>
</tr>
<tr>
<td>ENG 102²</td>
<td>COLLEGE COMPOSITION II 3</td>
</tr>
<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD 3</td>
</tr>
<tr>
<td>MTH 126²</td>
<td>FINITE MATHEMATICS 3</td>
</tr>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
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<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
</tr>
<tr>
<td>Physical and Life Science elective</td>
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</tr>
<tr>
<td>Social Science elective</td>
<td></td>
</tr>
<tr>
<td>Sophomore-Year</td>
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</tr>
<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
</tr>
<tr>
<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
</tr>
<tr>
<td>CMM 111</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
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<tr>
<td>CMM 113</td>
<td>INTERVIEWING</td>
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<tr>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
</tr>
<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
</tr>
<tr>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
</tr>
<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
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<tr>
<td>Additional Communication Requirement</td>
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<tr>
<td>Physical and Life Science elective</td>
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</tr>
<tr>
<td>HST elective</td>
<td></td>
</tr>
<tr>
<td>Junior-Year</td>
<td></td>
</tr>
<tr>
<td>ECO 450 or 460 or 461</td>
<td>COMPARATIVE ECONOMIC SYSTEMS</td>
</tr>
<tr>
<td>ECO 450</td>
<td>ECONOMIC DEVELOPMENT AND GROWTH</td>
</tr>
<tr>
<td>ECO 460</td>
<td>INTERNATIONAL ECONOMICS (ECO 461)</td>
</tr>
<tr>
<td>FIN 301</td>
<td>BUSINESS FINANCE</td>
</tr>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
</tr>
<tr>
<td>MGT 403 or 414</td>
<td>CROSS-CULTURAL MANAGEMENT (MGT 403)</td>
</tr>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
</tr>
<tr>
<td>MKT 340 or 440</td>
<td>MULTICULTURAL MARKETING ANALYSIS (MKT 340)</td>
</tr>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
</tr>
<tr>
<td>PHL 313 or REL 368</td>
<td>BUSINESS ETHICS (PHL 313) or CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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<tr>
<td>General elective</td>
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<tr>
<td>Senior-Year</td>
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<tr>
<td>FIN 450</td>
<td>INTERNATIONAL BUSINESS FINANCE</td>
</tr>
<tr>
<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
</tr>
<tr>
<td>MGT 490</td>
<td>MANAGING THE ENTERPRISE</td>
</tr>
<tr>
<td>General electives</td>
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<tr>
<td>Arts Study elective</td>
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</tr>
<tr>
<td>PHL/REL elective</td>
<td></td>
</tr>
<tr>
<td>INB elective</td>
<td></td>
</tr>
</tbody>
</table>

1A proficiency test for BAI 103L is available for those with adequate background.
2CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4MTH 102 is recommended to be taken before MATH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK; in addition to completing ECO 203 and 204, and an economics elective.

Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.

A minimum of 54 semester hours of all academic work must be at the 300-400 level.

Minor in International Business (INB)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207 or 301</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING (ACC 207)</td>
<td>3</td>
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<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
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<tr>
<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
<td>3-6</td>
</tr>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
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</tr>
<tr>
<td>Select three courses from:</td>
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<tr>
<td>ACC 412</td>
<td>INTERNATIONAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ECO 450</td>
<td>COMPARATIVE ECONOMIC SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>ECO 460</td>
<td>ECONOMIC DEVELOPMENT AND GROWTH</td>
<td>3</td>
</tr>
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<td>FIN 450</td>
<td>INTERNATIONAL BUSINESS FINANCE</td>
<td>3</td>
</tr>
<tr>
<td>MGT 403</td>
<td>CROSS-CULTURAL MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MGT 414</td>
<td>MULTINATIONAL CORPORATE MANAGEMENT</td>
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<tr>
<td>MKT 340</td>
<td>MULTICULTURAL MARKETING ANALYSIS</td>
<td>3</td>
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<tr>
<td>MKT 440</td>
<td>GLOBAL MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>Select nine additional semester hours (non-business, international oriented)</td>
<td></td>
<td>9</td>
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</table>

1Appropriate prerequisites must be completed.

2Students may select from the following: Any 200, 300 or 400 level language course (Two 100 level courses count as one course.); ANT 315, 351, 352, or 406; BIO 395; CMM 414; ENG 203, 205, 306, 322, 348, 358, or 448; HST 315, 321, 322, 323, 326, 327, 328, 332, 333, 337, 339, 357, 358, 374, 382, or 383; ASI 390 or 398; PBL 355 or 362; POL 202, 214, 302-329, 331, 406, 407, 409, or 410; REL 201, 202, or 345. Other courses may be substituted for the above courses with the permission of the Director of International Business Programs.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
<td>3-6</td>
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<tr>
<td>INB 491</td>
<td>HONORS THESIS</td>
<td>3-6</td>
</tr>
<tr>
<td>INB 492</td>
<td>HONORS THESIS</td>
<td>3</td>
</tr>
<tr>
<td>INB 497</td>
<td>INTERNATIONAL INTERNSHIP</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Seminar focusing on various contemporary international issues and regions; topics vary. Required of International Business majors and minors and students completing a Certificate in International Business.

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the Honors Program and the International Business program director.

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the Honors Program and the International Business program director.

Practical international work experience closely associated with student's major, minor, certificate program. Permission of program director required. See internship coordinator for details.
International studies is a multidisciplinary major designed to meet the needs of students interested in acquiring a broadly based international perspective for eventual careers in fields such as government service, international law, teaching, and social service. The curriculum includes a core of required courses, a concentration (Europe, Latin America, global development, human rights, and peace and global security), a foreign language requirement, and additional hours of course work drawn from the multidisciplinary elective pool.

Majors are also required to include an international and/or cross-cultural experiential component in their program. This may be satisfied through study abroad, internship, immersion, service, or work experience. The Center for International Programs can assist students in identifying opportunities.

A minor in international studies consists of twenty-one semester hours.

International Studies Committee

Mark Ensalaco, Director
Aaron (International Studies), Bilocerkowycz (Political Science), Carlson (History), Huff (Arts & Sciences), Karns (Political Science), Krugh (Languages), O'Meara (Languages)

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Arts with a major in International Studies (Europe Concentration) (INS)

<table>
<thead>
<tr>
<th>International Studies</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203, 204</td>
<td>6</td>
</tr>
<tr>
<td>INS (395 or 495)</td>
<td>1-6</td>
</tr>
<tr>
<td>POL 202, 214</td>
<td>6</td>
</tr>
<tr>
<td>- - - (ASI 111 or HST 103 or HST 198)</td>
<td>3-6</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>CMS 316, 414</td>
<td></td>
</tr>
<tr>
<td>ECO 460, 461</td>
<td></td>
</tr>
<tr>
<td>HST 324, 375</td>
<td></td>
</tr>
<tr>
<td>POL 331, 335, 406, 408</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td>1-5</td>
</tr>
<tr>
<td>ENG 322, 345</td>
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</tr>
<tr>
<td>FRN 352</td>
<td></td>
</tr>
<tr>
<td>MUS 303</td>
<td></td>
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<tr>
<td>VAH 490¹</td>
<td></td>
</tr>
<tr>
<td>Concentration (Europe)</td>
<td>18</td>
</tr>
<tr>
<td>HST 315</td>
<td></td>
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<tr>
<td>POL 320, 321</td>
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</tr>
<tr>
<td>Select two courses from:</td>
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</tr>
<tr>
<td>HST 313, 314, 321, 322, 323, 326, 327, 353</td>
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<tr>
<td>Select one course from:</td>
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<td>ENG 357, 358</td>
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<tr>
<td>FRN 362</td>
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<tr>
<td>GER 362</td>
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<td>ITA 362</td>
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<tr>
<td>PHL 353, 354, 358, 360</td>
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<td>REL 366</td>
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¹ Course 490 may be repeated for a maximum of 9 hours of credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>SPN 362</td>
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<td>VAH 203</td>
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<tr>
<td>Language</td>
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<td>Experiential Requirement</td>
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<td>Electives (select from the following)</td>
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<tr>
<td>ANT 315</td>
<td></td>
<td></td>
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<tr>
<td>CJS 336</td>
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<tr>
<td>CMM 314</td>
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<tr>
<td>ENG 205, 306, 356</td>
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<td>FIN 450</td>
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<tr>
<td>HST 311, 319</td>
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<tr>
<td>INS 390, 399</td>
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<tr>
<td>PHL 307, 320, 321, 323, 324, 325, 332, 350, 351, 352</td>
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<td>PSY 445</td>
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<tr>
<td>REL 374, 474</td>
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<tr>
<td>SOC 332</td>
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<tr>
<td>VAH 201, 202, 350, 360, 382, 450, 460, 470, 471, 480</td>
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**Liberal Studies Curriculum**

**Humanities and Fine Arts**

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
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<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
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**Social Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
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**Natural Sciences**

<table>
<thead>
<tr>
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<th>Course Name</th>
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<tbody>
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**Communication Competencies**

<table>
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<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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**Introduction to the University**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 150</td>
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**General Education courses/academic electives to total at least**

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<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>124</td>
</tr>
</tbody>
</table>

---

1. When offered as Art and Social Activism.
2. A student majoring in INS must complete at least six semester hours of upper-level foreign language instruction in one of the following languages: French, German, Italian, Spanish. Foreign language literature in translation courses do not fulfill this requirement. Also, these six semester hours may not duplicate upper-level foreign language courses taken to fulfill the requirement of nine semester hours drawn from the elective pool.
3. A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.
4. The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

Bachelor of Arts with a major in International Studies (Global Development Concentration) (INS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>66-78</td>
</tr>
<tr>
<td>ANT 150</td>
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<tr>
<td>ECO 203, 204</td>
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<td>6</td>
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<tr>
<td>INS (395 or 495)</td>
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<td>1-6</td>
</tr>
<tr>
<td>POL 202, 214</td>
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<td>6</td>
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<td>- - - (ASI 111 or HST 103 or HST 198)</td>
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Select two courses from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS 316, 414</td>
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<td></td>
</tr>
<tr>
<td>ECO 460, 461</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HST 324, 375</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POL 331, 335, 406, 408</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select one course from:  
ENG 322, 345  
FRN 352  
MUS 303  
VAH 490

Concentration (Global Development)  
Select three courses from:  
ASI 398  
BIO 395  
ECO 460  
POL 371

Select one course from:  
HST 324, 330, 331, 333, 334, 337, 339, 342, 354, 356, 357, 358, 383

Select one course from:  
ANT 306, 360  
CMS 316, 414  
ECO 461  
POL 331  
SOC 328, 339

Select one course from:  
ENG 345  
PHL 355, 363, 372  

Language  

Experiential Requirement  

Electives (select from the following)  

Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies  
- History  
- Literature: English or Foreign Language  
- Creative and Performing Arts  
- Foreign Language and/or Additional Arts and/or Humanities

Social Sciences  

Mathematics (excludes MTH 102, 204, 205)  

Natural Sciences

Communication Competencies

Introduction to the University: ASI 150

General Education courses/academic electives to total at least

1 When offered as Art and Social Activism.

2 A student majoring in INS must complete at least six semester hours of upper-level foreign language instruction in one of the following languages: French, German, Italian, Spanish. Foreign language literature in translation courses do not fulfill this requirement. Also, these six semester hours may not duplicate upper-level foreign language courses taken to fulfill the requirement of nine semester hours drawn from the elective pool.
A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.

The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

Bachelor of Arts with a major in International Studies (Human Rights Concentration) (INS)

<table>
<thead>
<tr>
<th>International Studies</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203, 204</td>
<td>6</td>
</tr>
<tr>
<td>INS (395 or 495)</td>
<td>1-6</td>
</tr>
<tr>
<td>POL 202, 214</td>
<td>6</td>
</tr>
<tr>
<td>--- (ASI 111 or HST 103 or HST 198)</td>
<td>3-6</td>
</tr>
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<td>Select two courses from:</td>
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</tr>
<tr>
<td>CMS 316, 414</td>
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<td>ECO 460, 461</td>
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<td>HST 324, 375</td>
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<tr>
<td>POL 331, 335, 406, 408</td>
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<tr>
<td>Select one course from:</td>
<td>1-5</td>
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<tr>
<td>ENG 322, 345</td>
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<td>FRN 352</td>
<td></td>
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<tr>
<td>MUS 303</td>
<td></td>
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<tr>
<td>VAH 490¹</td>
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<tr>
<td>Concentration (Human Rights)</td>
<td>21</td>
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<tr>
<td>PHL 371</td>
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<td>POL 333</td>
<td></td>
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<td>Select two courses from:</td>
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<td>POL 406, 411, 450, 452</td>
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<tr>
<td>REL 363</td>
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<td>SOC 339, 368</td>
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<td>Select one course from:</td>
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<tr>
<td>ENG 340</td>
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<tr>
<td>HST 312, 330, 331, 333, 337, 339, 354, 356, 358, 396, 399</td>
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<tr>
<td>SPN 342, 380, 480</td>
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<tr>
<td>VAH 490¹</td>
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<tr>
<td>Select one course from:</td>
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<tr>
<td>ASI 398</td>
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<tr>
<td>CMM 322</td>
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<td>POL 331</td>
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<td>SWK 325</td>
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</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>PHL 310, 314, 317, 364, 370</td>
<td></td>
</tr>
<tr>
<td>REL 366, 367, 471</td>
<td></td>
</tr>
<tr>
<td>Language²</td>
<td>6</td>
</tr>
<tr>
<td>Experiential Requirement³</td>
<td>1-4</td>
</tr>
<tr>
<td>Electives (select from the following)⁴</td>
<td>9</td>
</tr>
<tr>
<td>ANT 315</td>
<td></td>
</tr>
<tr>
<td>CJIS 336</td>
<td></td>
</tr>
<tr>
<td>CMM 314</td>
<td></td>
</tr>
<tr>
<td>ENG 205, 306, 356</td>
<td></td>
</tr>
<tr>
<td>FIN 450</td>
<td></td>
</tr>
<tr>
<td>HST 311, 319</td>
<td></td>
</tr>
<tr>
<td>INS 390, 399</td>
<td></td>
</tr>
<tr>
<td>PHL 307, 320, 321, 323, 324, 325, 332, 335, 350, 351, 352</td>
<td></td>
</tr>
<tr>
<td>PSY 445</td>
<td></td>
</tr>
<tr>
<td>REL 374, 474</td>
<td></td>
</tr>
<tr>
<td>SOC 332</td>
<td></td>
</tr>
<tr>
<td>VAH 201, 202, 350, 360, 382, 450, 460, 470, 471, 480</td>
<td></td>
</tr>
</tbody>
</table>
Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies 12
- History 6
- Literature: English or Foreign Language 3
- Creative and Performing Arts 3
- Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences 12

Mathematics (excludes MTH 102, 204, 205) 3

Natural Sciences 11

Communication Competencies 0-12

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1 When offered as Art and Social Activism.

2 A student majoring in INS must complete at least six semester hours of upper-level foreign language instruction in one of the following languages: French, German, Italian, Spanish. Foreign language literature in translation courses do not fulfill this requirement. Also, these six semester hours may not duplicate upper-level foreign language courses taken to fulfill the requirement of nine semester hours drawn from the elective pool.

3 A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.

4 The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

Bachelor of Arts with a major in International Studies (Latin America Concentration) (INS)

International Studies

Sem. Hrs. 61-67

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203, 204</td>
<td>6</td>
</tr>
<tr>
<td>INS (395 or 495)</td>
<td>1-6</td>
</tr>
<tr>
<td>POL 202, 214</td>
<td>6</td>
</tr>
<tr>
<td>CMS 316, 414</td>
<td>6</td>
</tr>
<tr>
<td>ECO 460, 461</td>
<td>6</td>
</tr>
<tr>
<td>HST 324, 375</td>
<td>6</td>
</tr>
<tr>
<td>POL 331, 335, 406, 408</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>ENG 322, 345</td>
<td></td>
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<tr>
<td>FRN 352</td>
<td></td>
</tr>
<tr>
<td>MUS 303</td>
<td></td>
</tr>
<tr>
<td>VAH 4901</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td>1-5</td>
</tr>
<tr>
<td>HST 357</td>
<td></td>
</tr>
<tr>
<td>POL 323, 404</td>
<td></td>
</tr>
<tr>
<td>SPN 342</td>
<td></td>
</tr>
<tr>
<td>Concentration (Latin America)</td>
<td>18</td>
</tr>
<tr>
<td>HST 357</td>
<td></td>
</tr>
<tr>
<td>POL 323, 404</td>
<td></td>
</tr>
<tr>
<td>SPN 342</td>
<td></td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>ASI 398</td>
<td></td>
</tr>
<tr>
<td>ECO 460</td>
<td></td>
</tr>
<tr>
<td>HST 358, 382, 383</td>
<td></td>
</tr>
<tr>
<td>REL 358</td>
<td></td>
</tr>
<tr>
<td>Language2</td>
<td></td>
</tr>
<tr>
<td>Experiential Requirement3</td>
<td>1-4</td>
</tr>
<tr>
<td>Electives (select from the following)4</td>
<td>9</td>
</tr>
<tr>
<td>ANT 315</td>
<td></td>
</tr>
</tbody>
</table>

1 The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

2 When offered as Art and Social Activism.

3 A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.

4 The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001771&c=-1&p=-1 7/10/2012
CJS 336
CMM 314
ENG 205, 306, 356
FIN 450
HST 311, 319
INS 390, 399
PHL 307, 320, 321, 323, 324, 325, 332, 350, 351, 352
PSY 445
REL 374, 474
SOC 332
VAH 201, 202, 350, 360, 382, 450, 460, 470, 471, 480

Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies 12
- History 6
- Literature: English or Foreign Language 3
- Creative and Performing Arts 3
- Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences 12

Mathematics (excludes MTH 102, 204, 205) 3

Natural Sciences 11

Communication Competencies 0-12

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1When offered as Art and Social Activism.

2A student majoring in INS must complete at least six semester hours of upper-level foreign language instruction in one of the following languages: French, German, Italian, Spanish. Foreign language literature in translation courses do not fulfill this requirement. Also, these six semester hours may not duplicate upper-level foreign language courses taken to fulfill the requirement of nine semester hours drawn from the elective pool.

3A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.

4The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

Bachelor of Arts with a major in International Studies (Peace and Global Security Concentration) (INS)

International Studies 61-67

- ANT 150 3
- ECO 203, 204 6
- INS (395 or 495) 1-6
- POL 202, 214 6
- - - (ASI 111 or HST 103 or HST 198) 3-6

Select one course from: 1-5

- ENG 322, 345
- FRN 352
- MUS 303
- VAH 490

Select two courses from: 6

- CMS 316, 414
- ECO 460, 461
- HST 324, 375
- POL 331, 335, 406, 408

Concentration (Peace and Global Security) 18
Select two courses from:
- HST 375
- POL 335, 408

Select one course from:
- PHL 317, 327

Select three courses from:
- ANT 360
- CMM 420
- HST 312, 313, 314, 320, 324, 333, 334, 349, 357, 373
- PHL 358
- POL 331, 404, 406, 452

Language\(^2\) 6

Experiential Requirement\(^3\) 1-4

Electives (select from the following)\(^4\) 9
- ANT 315
- CJS 336
- CMM 314
- ENG 205, 306, 356
- FIN 450
- HST 311, 319
- INS 390, 399
- PHL 307, 320, 321, 323, 324, 325, 332, 350, 351, 352
- PSY 445
- REL 374, 474
- SOC 332
- VAH 201, 202, 350, 360, 382, 450, 460, 470, 471, 480

Liberal Studies Curriculum

Humanities and Fine Arts
- Philosophy and Religious Studies 12
- History 6
- Literature: English or Foreign Language 3
- Creative and Performing Arts 3
- Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences 12
- Mathematics (excludes MTH 102, 204, 205) 3
- Natural Sciences 11

Communication Competencies 0-12

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

---

\(^1\)When offered as Art and Social Activism.

\(^2\)A student majoring in INS must complete at least six semester hours of upper-level foreign language instruction in one of the following languages: French, German, Italian, Spanish. Foreign language literature in translation courses do not fulfill this requirement. Also, these six semester hours may not duplicate upper-level foreign language courses taken to fulfill the requirement of nine semester hours drawn from the elective pool.

\(^3\)A student majoring in INS must include an international and/or cross-cultural experiential component in their program prior to graduation. This requirement can be satisfied through participation in a study abroad program, an internship, immersion, service, or work experience. The experience must be for a minimum of four weeks. This experiential component also requires taking either INS 395 or INS 495.

\(^4\)The remaining nine semester hours are to be chosen from the courses listed under the concentrations or from those listed under electives.

Minor in International Studies (INS)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>International Studies</strong></td>
<td>21</td>
</tr>
<tr>
<td>ECO 204</td>
<td>3</td>
</tr>
<tr>
<td>POL 214</td>
<td>3</td>
</tr>
</tbody>
</table>
LNG elective (202-level or higher) 3
Select twelve additional semester hours (300- or 400-level) 1

1Must be from at least three different disciplines, taken from International Studies concentrations or electives.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INS 390</td>
<td>MODEL UNITED NATIONS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Examination of the work and procedures of the United Nations and its constituent bodies, study of various international issues and policies of member states, as well as of parliamentary diplomatic practices such as caucusing, resolution writing, and speech making in preparation for participation in Model United Nations simulations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>INS 395</td>
<td>INTERNATIONAL EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Orientation for and evaluation of study abroad, internship, immersion, work, or service experience in a foreign country, organization involved in international activities, or a cross-cultural setting in the United States. Grading option two only.</td>
<td></td>
</tr>
<tr>
<td>INS 399</td>
<td>INDEPENDENT STUDY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Independent reading and research on an interdisciplinary topic in international studies chosen by the student in consultation with one or more faculty members. May be repeated.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Permission of program director.</td>
<td></td>
</tr>
<tr>
<td>INS 433</td>
<td>SEMINAR ON HUMAN RIGHTS SERVICE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): PHL 371 or POL 333; junior standing.</td>
<td></td>
</tr>
<tr>
<td>INS 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Approval of the University Honors Program.</td>
<td></td>
</tr>
<tr>
<td>INS 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Approved 477 and approval of University Honors Program.</td>
<td></td>
</tr>
<tr>
<td>INS 495</td>
<td>INTERNATIONAL STUDIES INTERNSHIP</td>
<td>1-6</td>
</tr>
<tr>
<td></td>
<td>Practical, supervised experience with an approved organization dealing with international affairs. Repeatable up to six hours.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Permission of program director.</td>
<td></td>
</tr>
</tbody>
</table>
College of Arts and Sciences

(LNG) Languages (Collapse Description)

The Department of Languages offers instruction in French, German, Italian, Latin, Russian, and Spanish in order to bring an international perspective to the university community. The language programs focus on the development of proficiency in speaking, writing, reading, and listening, and integrate the study of literature, linguistics, business and culture. The department also offers a few literature and culture courses taught in English (see CLA, HMS, FRN 350, 352, GER 350, 351, and SPN 350, 380) and the opportunity to participate in a stage play in French or Spanish (see ASI 214).

Each summer, the Department of Languages conducts one-month language-immersion study programs in Canada, Germany, Mexico, and Spain. Participants in these programs can earn up to seven semester hours of language credit at the advanced level.

Students in B.A. programs can acquire teacher licensure in French, German, or Spanish through the E11A program (see EDT). For details consult the department chairperson.

All new students who have previously studied their language of choice continue their study in courses in which all enrolled students are at approximately the same level of proficiency. Students' proficiency levels for the first enrollment in a language class are determined by the results of the Department's two-phase placement examination. Credit, but not placement, is awarded for scores of 3 or higher on the Advanced Placement language examinations.

Students may choose a major (24 semester hours at the 300-level or higher) in a single language (French, German, or Spanish) or a composite major in two languages (one of which may be Italian). Many students combine a major in the Department with a major in another discipline.

A minor in French, German, Italian, or Spanish consists of twelve semester hours at the 300-level or higher.

Courses beyond the 100-level in Latin and Russian are not offered on a regular basis. Please consult the Department chairperson for details.

Faculty

Arthur D. Mosher, Chairperson
Professor Emeritus: Conard
Professor: Peñas-Bermejo,
Associate Professors: Castro, Cavour, Krugh, Mosher, O'Meara, Romaguera
Assistant Professor: Chiodo,Costales
Lecturers: Brondolo, E. Hatch, E. L. Hatch, Rensstrom

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in French (FRN)

24-39

French1

FRN (311 or 312), (321 or 322) 6
Select two courses, including at least one in literature, from: 6
FRN 341, 360, 361, 362, 381, 450, 452
FRN electives (300- or 400-level)1 12

Liberal Studies Curriculum

Philosophy and Religious Studies 12
History 6
Literature: English or Foreign Language 3
Natural Sciences
Foreign Language and/or Additional Arts and/or Humanities

Communication Competencies
Introduction to the University: ASI 150

General Education courses/academic electives to total at least 124

Only one literature in translation course may count toward the major. Students in the E11A program should note that courses in translation do not count toward the 45 semester hours of a foreign language required for teacher certification.

Bachelor of Arts with a major in German (GER)

German
GER (311 or 312), (321 or 322) 6
Select two courses, including at least one in literature, from:
GER 341, 361, 362, 450
GER electives (300- or 400-level) 1 12

Liberal Studies Curriculum
Philosophy and Religious Studies 12
Social Sciences 12
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3

General Education courses/academic electives to total at least 124

Bachelor of Arts with a major in Languages (LNG)

Languages 1
Composite major in Languages 2 24

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy and Religious Studies 12
History 6
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3
History 6
Creative and Performing Arts 3
Natural Sciences 11

General Education courses/academic electives to total at least 124

Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.
Upper-level courses to total twenty-four semester hours distributed between two languages. Courses must include at least one three-semester-hour literature course, not including literature in translation. (Only one literature in translation may count toward the major.)

Bachelor of Arts with a major in Spanish (SPN)

<table>
<thead>
<tr>
<th>Required courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN (311 or 312) &amp; (321 or 322)</td>
<td>6</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Communication Competencies | 0-9 |

Introduction to the University: ASI 150 | 0-1 |

General Education courses/academic electives to total at least | 124 |

Only one literature in translation course may count toward the major. Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.

Minor in French (FRN)

<table>
<thead>
<tr>
<th>French</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select twelve semester hours (300- or 400-level)</td>
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</tbody>
</table>

Minor in German (GER)

<table>
<thead>
<tr>
<th>German</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select twelve semester hours (300- or 400-level)</td>
<td>12</td>
</tr>
</tbody>
</table>

Minor in Italian (ITA)

<table>
<thead>
<tr>
<th>Italian</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select twelve semester hours (300- or 400-level)</td>
<td>12</td>
</tr>
</tbody>
</table>

Minor in Spanish (SPN)

<table>
<thead>
<tr>
<th>Spanish</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select twelve semester hours (300- or 400-level)</td>
<td>12</td>
</tr>
</tbody>
</table>

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRN 101</td>
<td>BEGINNING FRENCH I</td>
<td>3</td>
</tr>
</tbody>
</table>

Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 101 restricted to those who have not studied French or have placed into that course by examination. Credit is for only ONE of the following: 101-102 or 111 or 121.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Corequisites/Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRN 101C</td>
<td>BEGINNING CONVERSATION PRACTICE IN FRENCH I</td>
<td>Practice in speaking French on the most basic level.</td>
<td>Corequisite(s): FRN 101 or permission.</td>
</tr>
<tr>
<td>FRN 102</td>
<td>BEGINNING FRENCH II</td>
<td>Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101 at the University of Dayton. Credit is for only ONE of the following: 101-102 or 111 or 121.</td>
<td>Prerequisite(s): FRN 101.</td>
</tr>
<tr>
<td>FRN 102C</td>
<td>BEGINNING CONVERSATION PRACTICE IN FRENCH II</td>
<td>Practice in speaking French in everyday situations.</td>
<td>Corequisite(s): FRN 102 or permission.</td>
</tr>
<tr>
<td>FRN 111</td>
<td>INTENSIVE BEGINNING FRENCH</td>
<td>Intensive development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have not studied French. Recommended for those who have had successful experience learning another language. Credit granted for only ONE of the following: 101-102 or 111 or 121.</td>
<td></td>
</tr>
<tr>
<td>FRN 121</td>
<td>ELEMENTARY FRENCH</td>
<td>Review and further development of fundamental communication skills in reading, listening, writing, and speaking. Admission restricted to those who have studied the language for at least two years in high school or the equivalent and place into the course by examination or successful completion of 101-102 or 111 or 121. Credit granted for only ONE of the following: 101-102 or 111 or 121.</td>
<td></td>
</tr>
<tr>
<td>FRN 141</td>
<td>BASIC PROFICIENCY IN FRENCH</td>
<td>Further development of communication skills in reading, listening, writing, and speaking. Admission by examination or successful completion of 102 or 111 or 121. Successful completion of this course includes the demonstration of the minimal level of proficiency required for the college of Arts and Sciences' Liberal Studies Curriculum.</td>
<td></td>
</tr>
<tr>
<td>FRN 141C</td>
<td>BASIC SPEAKING PROFICIENCY IN FRENCH</td>
<td>Further development of speaking skills.</td>
<td>Corequisite(s): FRN 141 or permission.</td>
</tr>
<tr>
<td>FRN 201</td>
<td>INTERMEDIATE FRENCH I</td>
<td>Development of listening, speaking, reading, and writing skills. Language laboratory required.</td>
<td>Prerequisite(s): FRN 141.</td>
</tr>
<tr>
<td>FRN 202</td>
<td>INTERMEDIATE FRENCH II</td>
<td>Development of listening, speaking, reading, and writing skills. Language laboratory required.</td>
<td>Prerequisite(s): FRN 201.</td>
</tr>
<tr>
<td>FRN 226</td>
<td>BASICS OF COMPUTER FRENCH</td>
<td>Introduction to French computer vocabulary and expressions and to the literature and status of the information sciences in France. Translation of articles and advertisements in the field from French to English.</td>
<td>Prerequisite(s): FRN 202.</td>
</tr>
<tr>
<td>FRN 270</td>
<td>INTERMEDIATE STUDY ABROAD</td>
<td>Intermediate intensive study in a foreign country/region whose everyday language is French. Instruction in language, culture and civilization. Conducted in French. Available only during the summer session. Repeatable when subtitle and content change</td>
<td>Prerequisite(s): FRN 141 or equivalent.</td>
</tr>
<tr>
<td>FRN 290</td>
<td>FRENCH GRAMMAR AND SYNTAX</td>
<td>Systematic review of basic grammatical concepts necessary for communicating effectively in French. Extensive practice in analyzing, producing, and explaining correct grammatical structures. Strongly</td>
<td></td>
</tr>
</tbody>
</table>
FRN 311 FRENCH CONVERSATION I
Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture.
Prerequisite(s): FRN 202.

FRN 312 FRENCH CONVERSATION II
Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture.
Prerequisite(s): FRN 202.

FRN 321 FRENCH COMPOSITION I
Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose.
Prerequisite(s): FRN 311 or 312.

FRN 322 FRENCH COMPOSITION II
Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose.
Prerequisite(s): FRN 311 or 312.

FRN 325 INTRODUCTION TO COMMERCIAL FRENCH
Introduction to French business and the French position in international trade. Basic vocabulary of the office and the world of trade, introduction to formal correspondence and transactions.
Prerequisite(s): FRN 311 or 312.

FRN 326 ADVANCED COMPUTER FRENCH
Intensive practice of translation from English to French and French to English of professional and technical computer-related literature from such fields as business, computer science, and education.
Prerequisite(s): FRN 226; (FRN 311 or 312).

FRN 331 FRENCH PHONETICS AND DICTION
Formation of the sounds of French, rules of pronunciation, use of phonetic transcription, practical exercises in interpretive reading. Recommended for French majors and required for prospective teachers.
Prerequisite(s): FRN 311 or 312.

FRN 341 FRENCH CULTURE AND CIVILIZATION
Introduction to the history of French civilization with emphasis on the arts and life in each major cultural period. Recommended for all French majors and minors.
Prerequisite(s): FRN 311 or 312.

FRN 350 FRENCH LITERATURE IN TRANSLATION
Course to acquaint nonmajors and nonminors with major French writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

FRN 352 OLD WORLD MEETS NEW (ENG)
Readings of (1) non-fictional narratives regarding French encounters with American Indians in the 16th and 17th centuries and (2) literary and philosophical works on this topic. Conducted in English.

FRN 360 EXPLICATION DE TEXTES
Introduction to method of analyzing literary texts, both prose and poetry. Elements of French versification. Recommended for all French majors and prospective teachers.
Prerequisite(s): FRN 311 or 312.

FRN 361 SURVEY OF FRENCH LITERATURE I
Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers.

Prerequisite(s): FRN 311 or 312.

FRN 362 SURVEY OF FRENCH LITERATURE II
Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers.

Prerequisite(s): FRN 311 or 312.

FRN 370 ADVANCED STUDY ABROAD
Advanced intensive study in a foreign country/region whose everyday language is French, treating its language, culture, and civilization. Conducted in French. Available only during the summer session. Repeatable when subtitle and content change.

Prerequisite(s): FRN 202 or equivalent.

FRN 381 HISTORY OF FRENCH CINEMA
A survey of the trends, styles, and principal directors in the history of French cinema. Discussion of personal, social, and cultural values portrayed in films.

Prerequisite(s): FRN 311 or 312.

FRN 425 ADVANCED COMMERCIAL FRENCH
Intensive study of business in France. Emphasis on specialized vocabulary, style, and syntax in commercial correspondence and accurate translation of current documents related to business and publicity.

Prerequisite(s): (FRN 321 or 322); FRN 325.

FRN 450 FRENCH LITERATURE
Lectures and discussion concentrating on specialized genres, periods, or authors. Repeatable when subtitle and content change.

Prerequisite(s): FRN 311 or 312.

FRN 452 OLD WORLD MEETS NEW (FRN)
Readings of (1) non-fictional narratives regarding French encounters with American Indians in the 16th and 17th centuries and (2) literary and philosophical works on this topic. Conducted in French.

Prerequisite(s): FRN 311 or 312.

FRN 469 FRENCH LINGUISTICS
A synchronic analysis of modern French language, including a contrast of the French sound system, morphology, and syntax with English structures; the historical derivation of French, creolization, and approaches to teaching French to English-speakers. Conducted in French.

Prerequisite(s): (FRN 311 or 312); LNG 468.

FRN 491 INDEPENDENT STUDY
Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of the chairperson.

Prerequisite(s): FRN 202; permission.

GER 101 BEGINNING GERMAN I
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 101 restricted to those who have not studied German or have placed into that course by examination. Credit is for only ONE of the following: 101-102 or 111 or 121.

GER 101C BEGINNING CONVERSATION PRACTICE IN GERMAN I
Practice in speaking German on the most basic level.

Corequisite(s): GER 101 or permission.

GER 102 BEGINNING GERMAN II
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101 at the University of Dayton. Credit for only ONE of the following: 101-102 or 111 or
Prerequisite(s): GER 101.

GER 102C BEGINNING CONVERSATION PRACTICE IN GERMAN II
Practice in speaking German in everyday situations. Corequisite(s): GER 102 or permission.

GER 111 INTENSIVE BEGINNING GERMAN
Intensive development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have not studied German. Recommended for those who have had successful experience learning another language. Credit granted for only ONE of the following: 101-102 or 111 or 121.

GER 121 ELEMENTARY GERMAN
Review and further development of fundamental communication skills in reading, listening, writing, and speaking. Admission restricted to those who have studied the language for at least two years in high school or the equivalent and place into the course by examination. Credit granted for only ONE of the following: 101-102 or 111 or 121.

GER 141 BASIC PROFICIENCY IN GERMAN
Further development of communication skills in reading, listening, writing, and speaking. Admission by examination or successful completion of 102 or 111 or 121. Successful completion of this course includes the demonstration of the minimal level of proficiency required for the College of Arts and Sciences' Liberal Studies Curriculum.

GER 141C BASIC SPEAKING PROFICIENCY IN GERMAN
Further development of speaking skills. Corequisite(s): GER 141 or permission.

GER 201 INTERMEDIATE GERMAN I
Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture. Prerequisite(s): GER 141.

GER 202 INTERMEDIATE GERMAN II
Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture. Prerequisite(s): GER 201.

GER 311 GERMAN CONVERSATION I
Intensive drill to develop communication skills: vocabulary development, pattern drills, and use of idioms in discussions and oral reports centered on German daily life and culture. Prerequisite(s): GER 202.

GER 312 GERMAN CONVERSATION II
Intensive drill to develop communication skills: vocabulary development, pattern drills, and use of idioms in discussions and oral reports centered on German daily life and culture. Prerequisite(s): GER 202.

GER 321 GERMAN COMPOSITION I
Practice in writing German on a variety of topics. Systematic grammar review and vocabulary enrichment. Short stories and periodicals are read and discussed to provide models, topics, and information. Prerequisite(s): GER 311 or 312.

GER 322 GERMAN COMPOSITION II
Practice in writing German on a variety of topics. Systematic grammar review and vocabulary enrichment. Short stories and periodicals are read and discussed to provide models, topics, and information. Prerequisite(s): GER 311 or 312.

GER 325 COMMERCIAL GERMAN
Introduction to the business language and customs and the economic profile of the German-speaking countries. Basic vocabulary of the office and the world of trade, introduction to formal business correspondence and transactions. 

Prerequisite(s): GER 311 or 312 or equivalent.

GER 341 GERMAN CULTURE AND CIVILIZATION
Introduction to German culture and civilization with emphasis on the arts, intellectual developments, and life in various periods of German history. Conducted in German.

Prerequisite(s): GER 311 or 312.

GER 350 GERMAN LITERATURE IN TRANSLATION
Course to acquaint nonmajors and nonminors with major German writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

GER 351 GERMAN FILM
Introduction to the aesthetic and thematic richness of German film. Students will study the cinema of the Weimar Republic within its historical context and its appropriation by Hollywood. This course will also introduce cross-cultural films having to do with identity, women, immigrant workers, asylum seekers, postcolonization, nationalism, social theory, ideology, and political activism.

Prerequisite(s): GER 311 or 312.

GER 361 SURVEY OF GERMAN LITERATURE I
German literature and its development from 1750 A.D. to the present. Study of exemplary works and literary movements.

Prerequisite(s): GER 311 or 312.

GER 362 SURVEY OF GERMAN LITERATURE II
German literature and its development from 1750 A.D. to the present. Study of exemplary works and literary movements.

Prerequisite(s): GER 311 or 312.

GER 370 STUDY ABROAD
Intensive study in a foreign country whose everyday language is German, treating the culture and civilization of the country. Conducted in German. Available only during the summer session. Repeatable when subtitle and content change.

Prerequisite(s): GER 202.

GER 450 GERMAN LITERATURE
Lectures and discussions in German in such specialized areas as Medieval lyric, Romanticism, 20th-century novel, modern drama, and individual authors. Repeatable when subtitle and content change.

Prerequisite(s): GER 311 or 312.

GER 469 GERMAN LINGUISTICS
A synchronic analysis of modern German language, including a contrast of the German sound system, morphology, and syntax with English structures; the historical derivation of German, the modern German dialects, and approaches to teaching German to English-speakers. Conducted in German.

Prerequisite(s): (GER 311 or 312); LNG 468.

GER 491 INDEPENDENT STUDY
Independent research project under the guidance of an instructor. Admission to project and number of sem. hrs. require approval of chairperson.

Prerequisite(s): GER 202; permission of instructor.

HND 101 BEGINNING HINDI I
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 101 restricted to those who have not studied Hindi or have placed into that course by examination. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only ONE of the following: HND 101-102 or HND 121.

HND 102 BEGINNING HINDI II
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only ONE of the following: HND 101-102 or HND 121.

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<tr>
<th>Course Code</th>
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<td>BASIC PROFICIENCY IN HINDI</td>
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<td>HND 201</td>
<td>INTERMEDIATE HINDI I</td>
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<td>HND 202</td>
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<td>ITA 202</td>
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ITA 313 COMMUNICATING IN ITALIAN I
Intensive practice in speaking and writing Italian at an advanced level. Emphasis on building vocabulary, learning correct idiomatic usage, increasing fluency, and improving syntax and style. The class is conducted in Italian. ITA 313 & 314 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 314 COMMUNICATING IN ITALIAN II
Intensive practice in speaking and writing Italian at an advanced level. Emphasis on building vocabulary, learning correct idiomatic usage, increasing fluency, and improving syntax and style. The class is conducted in Italian. ITA 313 & 314 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 341 ITALIAN CULTURE AND CIVILIZATION I
Survey of the major historical and cultural events in Italy from the Middle Ages to the present. All readings, lectures, discussions, reports, and tests are in Italian. ITA 341 & 342 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 342 ITALIAN CULTURE AND CIVILIZATION II
Survey of the major historical and cultural events in Italy from the Middle Ages to the present. All readings, lectures, discussion, reports, and tests are in Italian. ITA 341 & 342 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 361 SURVEY OF ITALIAN LITERATURE I
Italian literature from its beginnings in the 13th century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 & 362 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 362 SURVEY OF ITALIAN LITERATURE II
Italian literature from its beginnings in the 13th century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 & 362 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 491 INDEPENDENT STUDY
Independent research project under the guidance of an instructor. Admission to project and number of sem. hrs. require approval of chairperson.
Prerequisite(s): ITA 202 or permission of instructor.

LAT 101 BEGINNING LATIN I
Development of fundamental reading skills through extensive practice in language use. Admission to 101 restricted to those who have not studied Latin or have placed into that course by examination. Credit is granted for only ONE of the following: 101-102 or 121.

LAT 102 BEGINNING LATIN II
Development of fundamental reading skills through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101 at the University of Dayton. Credit is granted for only ONE of the following: 101-102 or 121.
Prerequisite(s): LAT 101.

LAT 121 ELEMENTARY LATIN
Review and further development of the fundamental reading skills. Admission restricted to those who have studied the language for at least two years in high school or the equivalent and place into the course by examination. Credit granted for only ONE of the following: 101-102 or 121.
Prerequisite(s): Minimum of two years high-school study of specific language; placement by examination.

LAT 141 BASIC PROFICIENCY IN LATIN
Further development of reading skills. Admission by examination or successful completion of 102 or 121. Successful completion of this course includes the demonstration of the minimal level of proficiency required for...
the College of Arts and Sciences' Liberal Studies Curriculum.  

**Prerequisite(s):** (LAT 102 or 121) or placement by examination.

**LAT 201**  
INTERMEDIATE LATIN I  
Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid.  
**Prerequisite(s):** LAT 141.

**LAT 202**  
INTERMEDIATE LATIN I, II  
Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid.  
**Prerequisite(s):** LAT 201.

**LAT 321**  
LATIN COMPOSITION AND SYNTAX  
Practice in writing Latin, for enrichment of vocabulary, refinement of grammar, and control of major Latin prose styles.  
**Prerequisite(s):** LAT 202.

**LAT 350**  
LATIN LITERATURE  
Advanced readings in a particular author or genre (epic, drama, history, philosophy). Repeatable when subtitle and content change.  
**Prerequisite(s):** LAT 202.

**LAT 491**  
INDEPENDENT STUDY  
Independent research project under the guidance of an instructor. Admission to project and number of sem. hrs. require approval of chairperson.  
**Prerequisite(s):** LAT 202 or permission.

**LNG 330**  
PRE-SECONDARY FOREIGN LANGUAGE EDUCATION  
An introduction to the pedagogical, philosophical, and psychological aspects of teaching foreign languages, with emphasis on pre-secondary students. Topics: technology, national and state standards, learners with special needs, reading in the foreign language, and professional associations. Fee.  
**Prerequisite(s):** EDT 110, 110L; at least one 300-level course in the language to be taught.

**LNG 468**  
INTRODUCTION TO LINGUISTICS  
Survey of the various aspects of a scientific description of human language: phonetics, phonology, morphology, syntax, semantics, and pragmatics. Interdisciplinary exploration of the reciprocal impact of linguistics on psychology, sociology, and language acquisition theory.  
**Prerequisite(s):** CMM 101 or CMM modules or equivalent; ENG 102.

**LNG 477**  
HONORS THESIS PROJECT  
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approval of the University Honors Program.

**LNG 478**  
HONORS THESIS PROJECT  
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**RUS 101**  
BEGINNING RUSSIAN  
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. No previous study of Russian presupposed.

**RUS 141**  
BASIC PROFICIENCY IN RUSSIAN  
Further development of communication skills in reading, listening, writing, and speaking. Successful completion of this course includes demonstration
of the minimal level of proficiency required for the College of Arts and Sciences' Liberal Studies Curriculum.

**Prerequisite(s):** RUS 101 or permission of instructor.

**RUS 201 INTERMEDIATE RUSSIAN I**
Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry.

**Prerequisite(s):** RUS 141.

**RUS 202 INTERMEDIATE RUSSIAN II**
Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry.

**Prerequisite(s):** RUS 201.

**RUS 311 RUSSIAN CONVERSATION I**
Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 & 312 may be taken in either sequence.

**Prerequisite(s):** RUS 202.

**RUS 312 RUSSIAN CONVERSATION II**
Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 & 312 may be taken in either sequence.

**Prerequisite(s):** RUS 202.

**RUS 321 RUSSIAN COMPOSITION**
Practice in composition on topics dealing with Russian life and culture; personal and business letters. Short weekly assignments to build vocabulary and control of idioms.

**Prerequisite(s):** RUS 202.

**RUS 361 SURVEY OF RUSSIAN LITERATURE**
Russian literature and its development during the 19th and 20th centuries. Study of exemplary works and literary movements.

**Prerequisite(s):** RUS 202.

**RUS 491 INDEPENDENT STUDY**
1 - 6
Independent study under the guidance of an instructor. Admission to course and number of sem. hrs. require approval of chairperson. Repeatable when content changes.

**SPN 101 BEGINNING SPANISH I**
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 101 restricted to those who have not studied Spanish or have placed into that course by examination. Credit is for only ONE of the following: 101-102 or 111 or 121.

**SPN 101C BEGINNING CONVERSATION PRACTICE IN SPANISH I**
Practice in speaking Spanish on the most basic level.

**Corequisite(s):** SPN 101 or permission.

**SPN 102 BEGINNING SPANISH II**
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101 at the University of Dayton. Credit is for only ONE of the following: 101-102 or 111 or 121.

**Prerequisite(s):** SPN 101.

**SPN 102C BEGINNING CONVERSATION PRACTICE IN SPANISH II**
Practice in speaking Spanish in everyday situations.

**Corequisite(s):** SPN 102 or permission.

**SPN 111 INTENSIVE BEGINNING SPANISH**
Intensive development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use.
Admission restricted to those who have not studied Spanish. Recommended for those who have had successful experience learning another language. Credit granted for only ONE of the following: 101-102 or 111 or 121.

**SPN 121** ELEMENTARY SPANISH

Review and further development of fundamental communication skills in reading, listening, writing, and speaking. Admission restricted to those who have studied the language for at least two years in high school or the equivalent and place into the course by examination. Credit granted for only ONE of the following: 101-102 or 111 or 121.

**SPN 141** BASIC PROFICIENCY IN SPANISH

Further development of communication skills in reading, listening, writing, and speaking. Admission by examination or successful completion of 102 or 111 or 121. Successful completion of this course includes the demonstration of the minimal level of proficiency required for the College of Arts and Sciences' Liberal Studies Curriculum.

**SPN 141C** BASIC SPEAKING PROFICIENCY IN SPANISH

Further development of speaking skills.

**Corequisite(s):** SPN 141.

**SPN 201** INTERMEDIATE SPANISH I

Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required.

**Prerequisite(s):** SPN 141.

**SPN 202** INTERMEDIATE SPANISH II

Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required.

**Prerequisite(s):** SPN 201.

**SPN 270** STUDY ABROAD

Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change.

**Prerequisite(s):** SPN 141 or equivalent.

**SPN 290** SPANISH GRAMMAR & SYNTAX

Systematic review of basic grammatical concepts necessary for communicating effectively in Spanish. Extensive practice in analyzing, generating, and explaining correct grammatical structures. Recommended for prospective teachers.

**Prerequisite(s):** SPN 202 or equivalent.

**SPN 311** SPANISH CONVERSATION I

Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world.

**Prerequisite(s):** SPN 202.

**SPN 312** SPANISH CONVERSATION II

Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world.

**Prerequisite(s):** SPN 311.

**SPN 321** SPANISH COMPOSITION I

Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 322** SPANISH COMPOSITION II

Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish.

**Prerequisite(s):** SPN 321.

**SPN 325** COMMERCIAL SPANISH

3
Introduction to commercial correspondence as a basis for developing skills in writing Spanish business letters and other correspondence.

**Prerequisite(s):** SPN 311 or 312.

**SPN 341 SPANISH CULTURE AND CIVILIZATION**
Readings and discussions on the historical, social, political, and cultural phenomena of Spain. Conducted in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 342 IBERO-AMERICAN CULTURE AND CIVILIZATION**
Readings and discussions on the historical, social, political, and cultural phenomena of Ibero-America. Conducted in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 350 HISPANIC LITERATURE IN TRANSLATION**
Course to acquaint nonmajors and nonminors with major Spanish and Spanish-American writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

**SPN 361 SURVEY OF SPANISH LITERATURE I**
Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the 20th century. Lectures, discussions, and assignments in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 362 SURVEY OF SPANISH LITERATURE II**
Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the 20th century. Lectures, discussions, and assignments in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 363 SURVEY OF SPANISH-AMERICAN LITERATURE I**
Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Discovery and Conquest through Realism and Naturalism. Conducted in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 364 SURVEY OF SPANISH-AMERICAN LITERATURE II**
Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Modernism through the present day. Conducted in Spanish.

**Prerequisite(s):** SPN 311 or 312.

**SPN 370 STUDY ABROAD**
Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change.

**Prerequisite(s):** SPN 202.

**SPN 380 SPANISH AND IBERO-AMERICAN CINEMA**
Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (Socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in English.

**Prerequisite(s):** ENG 102 or equivalent.

**SPN 450 TOPICS IN SPANISH LITERATURE**
Lectures and discussions concentrating on specialized genres, periods, or authors of Peninsular literature prior to the 20th century. Conducted in Spanish. Repeatable when subtitle and content change.

**Prerequisite(s):** SPN 311 or 312.

**SPN 451 TOPICS IN SPANISH-AMERICAN LITERATURE**
Lectures and discussions concentrating on specialized genres, periods, or authors of Spanish-American literature prior to the 20th century. Conducted in Spanish. Repeatable when subtitle and content change.

**Prerequisite(s):** SPN 311 or 312.

**SPN 469 SPANISH LINGUISTICS**
A synchronic analysis of modern Spanish language, including a contrast of the Spanish sound system, morphology, and syntax with English structures; the historical derivation of Spanish, the modern Spanish dialects (Spain and Latin America), and approaches to teaching Spanish to English speakers. Conducted in Spanish.

Prerequisite(s): LNG 468; SPN 311 or 312.

SPN 471  TOPICS IN SPANISH LITERATURE OF THE 20TH CENTURY  
Lectures and discussions concentrating on specialized periods, genres, or authors of 20th-century Peninsular literature. Conducted in Spanish. Repeatable when subtitle and content change.

Prerequisite(s): SPN 311 or 312.

SPN 472  TOPICS IN SPANISH-AMERICAN LITERATURE OF THE 20TH CENTURY  
Lectures and discussions concentrating on specialized periods, genres or authors of 20th-century Spanish-American literature. Conducted in Spanish. Repeatable when subtitle and content change.

Prerequisite(s): SPN 311 or 312.

SPN 480  SPANISH AND IBERO-AMERICAN CINEMA  
Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in Spanish.

Prerequisite(s): SPN 312 or equivalent; SPN 342 recommended.

SPN 491  INDEPENDENT STUDY  
Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson.

Prerequisite(s): SPN 202; permission.
School of Business Administration

(MGT) Management and Marketing  (Collapse Description)

The management program offered by the management/marketing department includes a major or minor in two distinct areas: leadership and entrepreneurship.

Faculty

Dean B. McFarland, Chairperson
NCR Professor in Global Leadership Management, Dean B. McFarland
Professors Emeriti: Darr, R. Miller
Professors: Bickford, Gould, King, McFarlin, Sweeney
Associate Professors: Gove, Janney, Kiewitz, Lau, Matherne
Lecturers: Chelle, Forlani, Miller
Adjunct: Csokasy, Evans, Fincher, Fitzpatrick, Franks, Glaser-Aikins, Kairis, Wood

Sub-Categories / Concentrations / Focus Areas

Entrepreneurship  Leadership
Marketing

Courses  (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 200</td>
<td>INTRODUCTION TO BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course for non-business majors to understand concepts, language, and issues of contemporary businesses operating in a global environment. Focus is on forms of business ownership, business ethics, social responsibility, balancing interests of various stakeholders, organizational structure, personnel issues, strategies and techniques for bringing products and services to market, financing operations and R&amp;D, business information systems, risk management, and comprehensive business plan.</td>
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<tr>
<td></td>
<td>Prerequisite(s): Non-business majors only; sophomore standing.</td>
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</tr>
<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of the legal environment in which businesses operates. Includes overview of legal system and judicial processes and coverage of constitutional principles for U.S. legal system, ways to resolve legal disputes, forms of business organization, legal issues relevant to employment, legal responsibility of businesses to clients and customers, and liability issues.</td>
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<td>Prerequisite(s): Sophomore standing.</td>
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<tr>
<td>MGT 220</td>
<td>ENTREPRENEURSHIP SOPHOMORE EXPERIENCE I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>First of two-course sequence. Designed to immerse Entrepreneurship major into the dynamics of starting and running a micro-business. Focuses on identifying market need, researching financial viability of business venture to meet that need, and marshalling the resources (among them, financial, human, technical, and motivational) to launch the business. Course is coordinated through the Crotty Center for Enterprise Leadership.</td>
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<tr>
<td></td>
<td>Prerequisite(s): Entrepreneurship major accepted into the Entrepreneurship program; sophomore standing.</td>
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<td></td>
<td>Corequisite(s): ACC 207; ECO 203.</td>
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<td>MGT 221</td>
<td>ENTREPRENEURSHIP SOPHOMORE EXPERIENCE II</td>
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<td></td>
<td>Continuation of MGT 220. Focuses on growing and running the micro-business throughout the academic year with planned liquidation or shutdown by the end of the academic year. Course is coordinated through the Crotty Center for Enterprise Leadership.</td>
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</tr>
<tr>
<td></td>
<td>Prerequisite(s): ACC 207; ECO 203; MGT 201, 220; Entrepreneurship</td>
<td></td>
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</tbody>
</table>
major accepted into the Entrepreneurship program.

**Corequisite(s):** ACC 208; ECO 204.

**MGT 301 ORGANIZATIONAL BEHAVIOR**
Study of individual, group, and team behavior in organizations as they interact to achieve both personal and organizational goals. Topics include individual differences, interpersonal communication, leadership, decision-making, reward systems, conflict management, and work groups and teams.

**Prerequisite(s):** Junior standing.

**MGT 302 MANAGERIAL SKILLS**
Course focuses on knowledge, skills and abilities in oral and written communication, decision-making, and facilitation of conflict management and group/team management. Demonstrated working competencies are required to complete the course.

**Prerequisite(s):** Junior standing.

**MGT 313 NEGOTIATION**
Course integrates conceptual understanding with practical application of negotiation and examines cultural and gender differences in negotiation, influence of personality traits, the negotiation process, and different ways in which to negotiate. Demonstrated knowledge, skills and abilities are part of course requirements.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 314 SURVEY OF HUMAN RESOURCES**
Survey course designed to familiarize students with the major functional areas in human resources including planning, recruitment and selection, training and development, compensation, benefits, safety, and employee relations. Course develops framework for understanding the roles of HR professional, issues faced by managers and supervisors, and application of sound management theory to these issues.

**Prerequisite(s):** Junior standing.

**MGT 315 EMPLOYEE RELATIONS**
Study of interrelationships and interactions of employer and employee. Emphasis placed on how employee knowledge and skills can be used to provide competitive advantage for employer. Both union and non-union environments are studied and evaluated.

**Prerequisite(s):** Junior standing.

**MGT 316 WOMEN IN MANAGEMENT**
Study of the gender stereotyping, gender socialization, gender and the law, work/family issues, glass ceiling, and strategies employed by successful women to address these issues. Course increases understanding of unique issues of women’s advancement in the workplace and develops skills in working with co-workers and business partners of the other gender, domestically and internationally.

**Prerequisite(s):** Junior standing.

**MGT 318 MANAGEMENT AND SOCIETY**
Study of business firms' relationship with society through examination of influence of the competitive environment, government, interest groups, and lobbyists in the public policy process. Subjects include technological changes, racism, poverty, diversity, urban issues, and environmental concerns.

**Prerequisite(s):** Junior standing.

**MGT 320 NEW VENTURE CREATION**
Overview of the concepts and aspects involving creation of new business ventures, new product development, and innovation within existing companies now popularly called corporate venturing. Topics include entry strategies, creating high potential opportunities, entrepreneurial finance, business plan development, entrepreneurial marketing, the legal structures of new businesses, and government programs for assisting entrepreneurial firms.

**Prerequisite(s):** ACC 208 or 301; MGT 201; junior standing.

**MGT 321 FINANCING ENTREPRENEURIAL VENTURES**
Focuses on financial aspects of starting, growing, and harvesting entrepreneurial ventures. Includes assessments of various sources of capital for small and growth businesses with emphasis placed on how common
financing deals are structured, common financing pitfalls, and various legal
documentation used to consummate financial transactions. Same as FIN 321.

**Prerequisite(s):** (ACC 207, 208) or ACC 301.

**Corequisite(s):** FIN 301 or MGT 320; junior standing.

**MGT 401 ORGANIZATIONAL DESIGN, CULTURE, AND CHANGE**
A course focused at the organizational level of analysis that includes design
of organizations, development of organizational culture, and other issues of
organizational change. Topics include leadership processes for
organizational design and change, power, and information processing.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 402 LEADERSHIP AND MOTIVATION**
An in-depth study of individual and group/team motivation in an
organizational setting through examination of individual, organizational, and
societal influences on motivation. Focus is on how leaders can understand,
and then affect, motivation through a variety of mechanisms.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 403 CROSS-CULTURAL MANAGEMENT**
Study of general cross-cultural differences and development of cross-
cultural frameworks in decision-making, negotiation, conflict management,
communication, and general business relations. Primary emphasis is on
understanding how and why cultures differ and how such differences can be
managed.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 404 GROUP DYNAMICS, TEAM PROCESSES, AND DECISION
MAKING**
In-depth study of group formation, team design, and diagnosis with
emphasis on developing and maintaining different types of groups and
teams. Course focuses on leaders' knowledge, skills and abilities to work
effectively with teams and groups.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 405 EMPLOYEE TRAINING AND DEVELOPMENT**
Focuses on training and learning methods and models, career paths, and
self-improvement methods within the balance of organizational, job, and
individual needs. Additional emphasis on systematic development and
evaluation of training programs and role of organizational leader in ensuring
employee training and development.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 409 CURRENT ISSUES IN LEADERSHIP**
Selected topics that consider and analyze current problems and emerging
issues in leadership and in the leader's role in promoting effective
organizational change and development.

**Prerequisite(s):** MGT 301; junior standing.

**MGT 410 SENIOR SEMINAR IN EXPERIENCING LEADERSHIP**
Focus on integration of knowledge, skills and abilities acquired in leadership
major courses. Seminar combines classroom component with relevant and
approved internship or consulting project to integrate the study of leadership
with its practice.

**Prerequisite(s):** MGT 401, 402; Leadership major; senior standing.

**MGT 413 PROJECT MANAGEMENT**
Course focuses on managerial activities associated with the project type
organizational structure and provides broad view of project management so
student can use concepts in a variety of different organizational settings.
Particular emphasis on understanding project planning, scheduling, and
controlling activities with major parallel theme on understanding how to build
an effective project team.

**Prerequisite(s):** Junior standing; OPS 301 recommended.

**MGT 414 MULTINATIONAL CORPORATE MANAGEMENT**
Introduction to use of strategic management in international context with
examination of different strategic and tactical approaches organizations use
to manage international operations.

**Prerequisite(s):** Senior standing.
MGT 420 ENTREPRENEURIAL MARKETING
Study of the techniques used to profitably identify and fill customers' needs when operating with a limited budget during the early stages of a start-up or in a small to medium sized firm. Course strives to develop skills in applying basic marketing principles and high impact sales and promotion techniques in integrated manner to produce a practical, cost-effective action plan for start-ups and smaller companies. Also listed as MKT 420.
Prerequisite(s): MKT 301.

MGT 421 SMALL BUSINESS MANAGEMENT
Course addresses unique characteristics of small businesses (e.g., resource limitations, family participation) and grapples with ways to overcome the "liability of smallness." Coverage includes effect of macro-trends (e.g., changing technology and globalization) on small business, review of topics from functionally-oriented courses, examination of how functional models such as pricing models can be modified for small business use, and ways for small business to identify and exploit weaknesses of larger, better financed competitors. For non-ENT majors only.
Prerequisite(s): ACC 208 or 301; MGT 201; non-ENT majors only; junior standing.

MGT 427 INTERNSHIP IN ENTREPRENEURSHIP
Exposes students to practicing entrepreneurs currently managing on-going entrepreneurial enterprises. Purpose of course is to develop mentor relationships with successful practicing entrepreneurs, to experience success working in entrepreneurial setting, and to gain first-hand experience about knowledge, skills, and abilities necessary to be a successful entrepreneur. Internships coordinated through the Crotty Center for Enterprise Leadership. Students will submit reports throughout semester addressing questions that integrate Entrepreneurship and other business coursework with their work experience. Typically general elective credit only for ENT majors.
Prerequisite(s): BAI 295; MGT 320; Entrepreneurship major; junior standing.

MGT 429 CURRENT ISSUES IN ENTREPRENEURSHIP
In-depth examination of selected contemporary topics relevant to entrepreneurship. Subject matter may vary each semester. May be taken only once for credit toward Entrepreneurship major or minor.
Prerequisite(s): MGT 320, 321; senior standing.

MGT 430 SENIOR SEMINAR IN ENTREPRENEURSHIP
Project-based capstone learning experience for Entrepreneurship major. Course objective is to integrate prior coursework through one of two projects: (1) writing of complete business plan- including market cost and research, competitive analysis, and financial and legal planning- for student's personal business to start after graduation; or (2) completion of a consulting project with local entrepreneurial firm, including business plan revision, market research, feasibility testing, financial modeling and analysis, and operations analysis.
Prerequisite(s): MGT 320, 321; both ENT electives completed; ENT major; senior standing; 2.7 overall gpa or higher.

MGT 460 MANAGING THE ENTERPRISE
Course focuses on creating understanding of how concepts and analytical tools learned in other business courses are integrated in practice to create a unified whole. Students learn how general and top managers gather and use information to influence organizational mission, goals, and strategies. Course typically relies heavily on cases and/or business simulation.
Prerequisite(s): ACC 207, 208; FIN 301; MGT 201, 301; MIS 301; MKT 301; OPS 301; senior standing.

MGT 491 HONORS THESIS
Selection, design, investigation, and completion of an independent and original research thesis under guidance of departmental faculty member.
Prerequisite(s): University Honors Program participant; permission of department chairperson and director of Honors Program; senior standing.

MGT 492 HONORS THESIS
Selection, design, investigation, and completion of an independent and original research thesis under guidance of departmental faculty member.
**MGT 494 SEMINAR IN MANAGEMENT**

Study of selected topics or issues in contemporary managerial practice, domestic or international. May be taken more than once if topics change. Title will reflect topics covered in a particular offering. 

**Prerequisite(s):** University Honors Program participant; permission of department chairperson and director of Honors Program; senior standing.

**MGT 495 SERVICE LEARNING**

Designated sections of selected courses may include service learning component through which students apply concepts learned in the course in an applied setting.

**Prerequisite(s):** Vary by topic.

**MGT 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT**

Supervised work experience in partnership with sponsoring employer that is directly relevant to major or minor. Must work with internship coordinator in Internship Office and get approval of department chairperson or designee. May be used for general elective credit only. LDR or ENT majors only.

**Prerequisite(s):** BAI 295; prior completion of 6 semester hours of MGT; junior standing; overall gpa of 2.7 or higher.

**MKT 300 SURVEY OF MARKETING**

Survey of marketing for non-marketing majors. Course introduces students to market and environmental analysis, marketing strategy and link with corporate strategy, market segmentation, organizational and consumer markets, and marketing mix (product, price, promotion, distribution).

**Prerequisite(s):** Non-business majors only; junior standing.

**MKT 301 PRINCIPLES OF MARKETING**

The general principles and practices underlying the processes of marketing. Analysis of the environmental conditions of manufacturers, wholesalers, retailers, and other marketing agencies.

**Prerequisite(s):** Business majors only; junior standing.

**MKT 310 PRINCIPLES OF SELLING**

The nature of selling, explored through the practical application of buying motives and selling techniques. Projects and role-playing to experience the preparation, closing, and post-purchase phases of selling.

**Prerequisite(s):** MKT 300 or 301.

**MKT 315 RETAIL MARKETING**

Survey of the development of retailing and the impact of consumer behavior, fashion, computers, and other innovations. Structural organization, location, and layout. Merchandising operations including planning of sales, purchases, stock control, markup, and expense control.

**Prerequisite(s):** MKT 300 or 301.

**MKT 330 SERVICES MARKETING**

Basic concepts of services marketing including discussion of marketing concepts and their management implications in services organizations, the scope of ethics and social responsibility at the national and global levels, and how the external environment, both domestic and international, influences organization strategy.

**Prerequisite(s):** MKT 300 or 301.
MKT 340  MULTICULTURAL MARKETING ANALYSIS
Study of basic concepts and theories of multicultural marketing. Students acquire basic understanding of culture, awareness of cultural differences, and appreciation of importance of cultural adaptation for marketing program, especially as related to development of marketing systems.
Prerequisite(s): MKT 300 or 301.

MKT 341  BUSINESS-TO-BUSINESS MARKETING
Concepts and analytical procedures associated with marketing to business. Business consumer and competitor analysis, marketing information systems, marketing research, and demand forecasting. Strategy development in product, promotion, distribution, and pricing with focus on manufacturers of business products.
Prerequisite(s): MKT 300 or 301.

MKT 350  INTERNET AND ELECTRONIC MARKETING
Comprehensive study of the internet as a marketing channel and as an economic and social phenomenon. Emphasis is on role of internet in firm's overall marketing efforts, especially marketing mix, target markets, and external environment; principles of e-commerce; and application of course knowledge in a managerial and decision-making context.
Prerequisite(s): MKT 300 or 301.

MKT 405  CONSUMER BEHAVIOR
Comprehensive study of buyer decision making which offers insight into the buyer-seller relationship. Application of theories from psychology and social psychology to investigate the behavior of industrial and consumer buyers.
Prerequisite(s): MKT 300.

MKT 406  MARKETING CHANNELS
Study of the place element of the marketing mix. A focus on the relationships among manufacturers, wholesalers, and retailers. Channel structure and design including franchising.
Prerequisite(s): MKT 300 or 301.

MKT 408  MARKETING LOGISTICS
Study of the physical distribution element of the marketing mix. Customer service, service quality, transportation, inventory, warehousing, and information systems used by manufacturers and retailers.
Prerequisite(s): MKT 300 or 301.

MKT 411  SALES MANAGEMENT
The structure of the sales organization; determination of sales policies; selection, training, and motivation of salespersons; establishing sales territories and quotas.
Prerequisite(s): MKT 301, 310.

MKT 420  ENTREPRENEURIAL MARKETING
Study of the techniques used to profitably identify and fill customers' needs when operating within a limited budget during the early stages of a start-up or in a small to medium sized firm. Course strives to develop skills in applying basic marketing principles and high impact sales and promotion techniques in integrated manner to produce a practical, cost-effective action plan for start-ups and smaller companies. Also listed as MGT 420.
Prerequisite(s): MKT 300 or 301.

MKT 421  ADVERTISING
Nature and scope of advertising, social and economic aspects, role of research, creative strategy, media planning and selection, coordination with other marketing efforts.
Prerequisite(s): MKT 300 or 301.

MKT 426  PROMOTION MANAGEMENT
Integration course to familiarize marketing students interested in promotion and marketing communication with tools necessary for the development, implementation, and management of promotional programs. Focus on management and coordination of advertising, personal selling, publicity and public relations, sales promotion, and collateral materials.
Prerequisite(s): MKT 300 or 301.
MKT 435 NEW PRODUCT DEVELOPMENT
Investigation and analysis of the new product development process, the management of a product through its life cycle, and the importance of the price variable in the product management process.
Prerequisite(s): MKT 301.

MKT 440 GLOBAL MARKETING
Emphasis on understanding global marketing environments, developing skills of global market analysis, designing and developing appropriate marketing strategies for global markets, decision making in global marketing.
Prerequisite(s): MKT 300 or 301.

MKT 445 SPECIAL TOPICS IN INTERNATIONAL MARKETING
Study abroad program. Subject varies from time to time. May be taken more than once if topic changes.
Prerequisite(s): Junior standing.

MKT 450 BUYER BEHAVIOR AND MARKET ANALYSIS
Integration of theoretical components of buyer behavior and marketing research. Emphasis placed on how marketing managers use concepts from these bodies of knowledge to make better decisions. Topics include common processes and methods of contemporary market research, analysis of purchase decisions, market research techniques used to gather information about purchase decisions, and use of information to formulate and implement a marketing strategy.
Prerequisite(s): MKT 301; junior standing.

MKT 455 MARKETING PLANNING AND STRATEGY
Integrative course in marketing with emphasis on managerial decision making. The course is designed around a strategic marketing planning approach with a clear emphasis on how to do strategic analysis and marketing planning.
Prerequisite(s): ACC 207, 208; FIN 301; MKT 450; senior standing.

MKT 480 SUPPLY CHAIN MANAGEMENT STRATEGIES
Concepts, analytical techniques, and solution methods for designing and managing integrated supply chains. Strategic issues of integrated supply chain design and management, including inventory management, logistics network design, distribution systems, strategic alliances, value of information for centralized decisions and risk-pooling, information technology and decision support, and international supply chain management. (Also listed as OPS 480 and taught by OPS faculty.)
Prerequisite(s): MKT 301; OPS 401.

MKT 491 HONORS THESIS
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

MKT 492 HONORS THESIS
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

MKT 494 SPECIAL TOPICS IN MARKETING
Subject varies from time to time. May be taken more than once if topic changes.
Prerequisite(s): Varies with topic.

MKT 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT
Practical work experience associated with career development and career exploration. See internship coordinator for details. Permission of department chair or designee required.
Prerequisite(s): BAI 255; prior completion of 6 semester hours of MKT; MKT major; junior standing; overall GPA of 2.7 or higher.

MKT 498 COOPERATIVE EDUCATION
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.)
Permission of chairperson or designee required. For general elective credit only.

**Prerequisite(s):** BAI 295; MKT major; overall gpa of 2.7 or higher.

**MKT 499 INDEPENDENT STUDY IN MARKETING** 1 - 3

Study of one or more specific aspects of the marketing process with emphasis on individual reading and research. Subject matter to be determined by the instructor on the basis of interest and need of the student. Enrollment limited. Permission of chairperson or designee required.

**Prerequisite(s):** MKT 301; MKT major.
Students majoring or minoring in entrepreneurship will develop an understanding of how a business enterprise is conceived, launched, and sustained. The curriculum teaches students how to identify viable business opportunities and explores how such opportunities are transformed into new ventures. Additional emphasis is placed on how entrepreneurial ventures successfully compete for financial resources, successfully identify and reach their target markets, and successfully establish business processes, systems, and controls to manage small and growth-oriented ventures.

Students must apply to and be accepted as an entrepreneurship major. The admissions process is selective and applications currently close on March 1 (date is subject to change). This is a firm deadline. Because entrepreneurship majors begin a two-course sequence in their sophomore year, the only opportunity to apply for admission into the major is during the winter semester of the first year. However, because many talented students who are interested in majoring in entrepreneurship transfer into the School of Business Administration at the end of their first year, late applicants will be considered through August 1 on a space available basis. Normally, no more than 40 students are in each entering sophomore ENT major class.

A key feature of the entrepreneurship major is the Sophomore Experience in which student teams create micro-businesses and actually run them during their sophomore year. This experience is directed through the Crotty Center for Entrepreneurial Leadership and includes seminars with faculty and entrepreneurs who work with students to develop the essential knowledge, skills, and abilities for successfully running a micro business. Another key feature is the senior seminar in which students either (a) write a complete business plan for a viable business that they are considering launching after graduation; (b) or work as consultants with an entrepreneur to solve an actual problem within an existing entrepreneurial business.

For business majors, the minor in entrepreneurship consists of eighteen semester hours.

For non-business majors, the minor in entrepreneurship consists of fifteen semester hours.

### Majors/Minors

**Majors/Minors (Collapse All)**

**Major/Minor Name**

Bachelor of Science with a major in Entrepreneurship (ENT)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BAI 103L$^1$</td>
<td>BUSINESS COMPUTING LABORATORY</td>
</tr>
<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
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<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
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<tr>
<td>CMM 110$^2$</td>
<td>GROUP DECISION MAKING</td>
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<tr>
<td>ENG 101$^3$</td>
<td>COLLEGE COMPOSITION I</td>
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<td>ENG 102$^3$</td>
<td>COLLEGE COMPOSITION II</td>
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<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<tr>
<td>MTH 128$^4$</td>
<td>FINITE MATHEMATICS</td>
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<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
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<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
</tr>
<tr>
<td>Physical and Life Science elective$^5$</td>
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<th>Course</th>
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<td><strong>Sophomore-Year</strong></td>
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<tr>
<td>ACC 207 INTRODUCTION TO FINANCIAL ACCOUNTING</td>
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<td>ACC 208 INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
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<td>CMM 111 INFORMATIVE PUBLIC SPEAKING</td>
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<td>CMM 113 INTERVIEWING</td>
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<td>DSC 210 STATISTICS FOR BUSINESS I</td>
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<td>DSC 211 STATISTICS FOR BUSINESS II</td>
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<tr>
<td>ECO 203 PRINCIPLES OF MICROECONOMICS</td>
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<tr>
<td>ECO 204 PRINCIPLES OF MACROECONOMICS</td>
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<td>MGT 201 LEGAL ENVIRONMENT OF BUSINESS</td>
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<tr>
<td>MGT 220 ENTREPRENEURSHIP SOPHOMORE EXPERIENCE I</td>
<td>2</td>
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<tr>
<td>MGT 221 ENTREPRENEURSHIP SOPHOMORE EXPERIENCE II</td>
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<tr>
<td><strong>Additional Communication Requirement</strong></td>
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<td><strong>Physical and Life Science elective</strong></td>
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<td><strong>Junior-Year</strong></td>
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<tr>
<td>FIN 301 BUSINESS FINANCE</td>
<td>3</td>
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<tr>
<td>MGT 301 ORGANIZATIONAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>MGT 320 NEW VENTURE CREATION</td>
<td>3</td>
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<tr>
<td>MGT 321 FINANCING ENTREPRENEURIAL VENTURES</td>
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<tr>
<td>MIS 301 INFORMATION SYSTEMS IN ORGANIZATIONS</td>
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<td>MKT 301 PRINCIPLES OF MARKETING</td>
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<td>OPS 301 SURVEY OF OPERATIONS MANAGEMENT</td>
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<td><strong>ECO elective</strong></td>
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<td>MGT 430 SENIOR SEMINAR IN ENTREPRENEURSHIP</td>
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<tr>
<td>MGT 490 MANAGING THE ENTERPRISE</td>
<td>3</td>
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<td>PHL 313 or REL 368 BUSINESS ETHICS (PHL 313) or CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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<td><strong>General electives</strong></td>
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<td><strong>Arts Study elective</strong></td>
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</tbody>
</table>

1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
6. SBA majors must complete an additional social science course in ANT, CJ, PSY, SOC, or SWK; in addition to completing ECO 203 and 204, and an economics elective.
7. Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.
8. During the junior or senior year, 2 of the following must be taken: MGT 402, MGT 420, MGT 429.
9. A minimum of 54 semester hours of all academic work must be at the 300-400 level.
10. Select any 300 or 400 level economics course.
Select from MGT 402, 420 or MGT 429.

Minor in Entrepreneurship (ENT)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 320</td>
<td>NEW VENTURE CREATION</td>
<td>3</td>
</tr>
<tr>
<td>MGT 321</td>
<td>FINANCING ENTREPRENEURIAL VENTURES</td>
<td>3</td>
</tr>
<tr>
<td>MGT 402</td>
<td>LEADERSHIP AND MOTIVATION</td>
<td>3</td>
</tr>
<tr>
<td>MGT 420</td>
<td>ENTREPRENEURIAL MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MGT 421</td>
<td>SMALL BUSINESS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MGT 429</td>
<td>CURRENT ISSUES IN ENTREPRENEURSHIP</td>
<td>3</td>
</tr>
</tbody>
</table>

18 Sem. Hrs.

Entrepreneurship (for non-business majors)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 301</td>
<td>INTRODUCTION TO ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>MGT 320</td>
<td>NEW VENTURE CREATION</td>
<td>3</td>
</tr>
<tr>
<td>MGT 321</td>
<td>FINANCING ENTREPRENEURIAL VENTURES</td>
<td>3</td>
</tr>
<tr>
<td>MGT 421</td>
<td>SMALL BUSINESS MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

15 Sem. Hrs.
School of Business Administration
(MGT) Management and Marketing

You are currently viewing Leadership, an academic area in Management and Marketing. To view academic information for Management and Marketing, click here.

(LDR) Leadership (Collapse Description)

Students majoring or minoring in leadership will develop understanding and competencies in motivation, group dynamics, team processes, cross-cultural management, employee training and development, and organizational design, development, and change. For the student majoring in leadership, a key component of the curriculum is the "bookend" experience that begins in the first semester of the junior year with co-registration in Organizational Behavior (MGT 301) and Managerial Skills (MGT 302). Knowledge, skills, and abilities gained in these two courses will be reinforced throughout the remaining leadership courses, and leadership majors are required to demonstrate working competencies in these areas in subsequent courses. To complete the "bookend" experience, leadership majors will register in their senior year for the capstone course, Seminar in Experiencing Leadership.

The management faculty strongly recommend that students completing the leadership major also complete a major or minor in another business discipline. Other majors or minors that are complementary include entrepreneurship, marketing, finance, operations management, accounting, or MIS. A leadership major combined with a major or minor in a business function creates an outstanding combination for employment.

Majors/Minors (Collapse All)

**Major/Minor Name**

Bachelor of Science with a major in Leadership (LDR)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAI 103L¹</td>
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</tr>
<tr>
<td>BAI 150</td>
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<td>BAI 151</td>
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<td>CMM 110²</td>
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<tr>
<td>ENG 101³</td>
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<tr>
<td>ENG 102³</td>
<td>3</td>
</tr>
<tr>
<td>HST 103</td>
<td>3</td>
</tr>
<tr>
<td>MTH 128⁴</td>
<td>3</td>
</tr>
<tr>
<td>MTH 129</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>3</td>
</tr>
<tr>
<td>Physical and Life Science elective⁵</td>
<td>3</td>
</tr>
<tr>
<td>Social Science elective⁶</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Sophomore-Year</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ACC 207</td>
<td>3</td>
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<tr>
<td>ACC 208</td>
<td>3</td>
</tr>
<tr>
<td>CMM 111²</td>
<td>1</td>
</tr>
<tr>
<td>CMM 113²</td>
<td>1</td>
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<tr>
<td>DSC 210</td>
<td>3</td>
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<tr>
<td>DSC 211</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Required for first-time students who have not earned credit in this course in high school.
² Required for first-time students.
³ Required for first-time students who have not earned credit in this course in high school.
⁴ Finite Mathematics is offered in both a standard and an accelerated format. Credit for one course excludes credit for the other.
⁵ Must be a science course.
⁶ Must be a social science course.
Additional Communication Requirement\(^7\) 3
Physical and Life Science elective\(^5\) 3
HST elective\(^8\) 3

**Junior-Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 301</td>
<td>BUSINESS FINANCE</td>
</tr>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
</tr>
<tr>
<td>MGT 302</td>
<td>MANAGERIAL SKILLS</td>
</tr>
<tr>
<td>MGT 401</td>
<td>ORGANIZATIONAL DESIGN, CULTURE, AND CHANGE</td>
</tr>
<tr>
<td>MGT 402</td>
<td>LEADERSHIP AND MOTIVATION</td>
</tr>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
</tr>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
</tr>
</tbody>
</table>

General electives\(^8\) 3
ECO elective\(^9\) 3

**Senior-Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 410</td>
<td>SENIOR SEMINAR IN EXPERIENCING LEADERSHIP</td>
</tr>
<tr>
<td>MGT 490</td>
<td>MANAGING THE ENTERPRISE</td>
</tr>
<tr>
<td>PHL 313</td>
<td>BUSINESS ETHICS (PHL 313)</td>
</tr>
<tr>
<td>or REL 368</td>
<td>CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
</tr>
</tbody>
</table>

General electives\(^9\) 9
General Education Requirement\(^5\) 6
LDR elective\(^10\) 3
LDR elective\(^10\) 3

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1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. SB majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
6. SB majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK; in addition to completing ECO 203 and 204, and an economics elective.
7. Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.
8. A minimum of 54 semester hours of all academic work must be at the 300-400 level.
9. Select any 300 or 400 level economics course.
10. Select from MGT 403, MGT 404, MGT 405, or MGT 409.

Minor in Leadership (LDR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
</tr>
<tr>
<td>MGT 401</td>
<td>ORGANIZATIONAL DESIGN, CULTURE, AND CHANGE</td>
</tr>
<tr>
<td>MGT 402</td>
<td>LEADERSHIP AND MOTIVATION</td>
</tr>
</tbody>
</table>

Select two courses from:\(^1\) 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 302</td>
<td>MANAGERIAL SKILLS</td>
</tr>
<tr>
<td>MGT 403</td>
<td>CROSS-CULTURAL MANAGEMENT</td>
</tr>
<tr>
<td>MGT 404</td>
<td>GROUP DYNAMICS, TEAM PROCESSES, AND DECISION MAKING</td>
</tr>
<tr>
<td>MGT 409</td>
<td>CURRENT ISSUES IN LEADERSHIP</td>
</tr>
</tbody>
</table>
A student minoring in Leadership may petition the department chair to substitute other Management courses in place of one, but not two, of these electives. The request will be considered in light of the student's overall academic program and career intentions.
School of Business Administration  
(MGT) Management and Marketing  

You are currently viewing Marketing, an academic area in Management and Marketing. To view academic information for Management and Marketing, click here.  

(MKT) Marketing  (Collapse Description)  
A student with a major or minor in marketing learns systematic ways for identifying, understanding, and satisfying consumer and organizational needs. Courses in the major are designed to instill in students an appreciation for both the total marketing process as well as specialized marketing activities such as purchasing, sales, transportation, warehousing, and marketing research. They likewise focus on how to integrate the marketing process with the objectives of the organization, the functions of the economy, and the constraints of society from national and global perspectives. Students learn to apply conceptual principles and quantitative techniques in their study of consumer and business markets with the goal of becoming informed, skilled, and competent marketing professionals.  

Marketing majors frequently combine their academic studies with either a co-op or internship work experience. General elective credit for such experiences is approved on a case-by-case basis with the criteria being the nature of the experience and its degree of integration into the student's academic program, and prior completion of BAI 295.  

Faculty  
Wesley C. King, Jr., Department Chair  
Distinguished Service Professor: Murphy  
Professors Emeritus: Comer  
Associate Professors: Lewis, Oumlis, Sekely, Sparks, Yates-Weils  
Assistant Professors: Pan, Seimens  
Lecturer: Dickey  
Adjunct: Blanford, Kaminski, Krystofik, Mitchell, Swartz  

Majors/Minors  (Collapse All)  

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Bachelor of Science with a major in Marketing (MKT)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
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<th>First-Year</th>
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<tbody>
<tr>
<td>BAI 103L</td>
<td>BUSINESS COMPUTING LABORATORY</td>
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<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
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</tr>
<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
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<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>1</td>
</tr>
<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
<td>3</td>
</tr>
<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
<td>3</td>
</tr>
<tr>
<td>MTH 128</td>
<td>FINITE MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
</tr>
<tr>
<td>Physical and Life Sciences elective</td>
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<tr>
<td>Social Science elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>Sophomore-Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
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</tr>
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<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
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<tr>
<td>CMM 111</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
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</tbody>
</table>
CMM 113 INTERVIEWING 1
DSC 210 STATISTICS FOR BUSINESS I 3
DSC 211 STATISTICS FOR BUSINESS II 3
ECO 203 PRINCIPLES OF MICROECONOMICS 3
ECO 204 PRINCIPLES OF MACROECONOMICS 3
MGT 201 LEGAL ENVIRONMENT OF BUSINESS 3

Additional Communication Requirement
Physical and Life Sciences elective 3
HST elective 3

Junior-Year
FIN 301 BUSINESS FINANCE 3
MGT 301 ORGANIZATIONAL BEHAVIOR 3
MIS 301 INFORMATION SYSTEMS IN ORGANIZATIONS 3
MKT 301 PRINCIPLES OF MARKETING 3
MKT 450 BUYER BEHAVIOR AND MARKET ANALYSIS 6
OPS 301 SURVEY OF OPERATIONS MANAGEMENT 3
General electives 6 6
MKT elective 3

Senior-Year
MGT 490 MANAGING THE ENTERPRISE 3
MKT 455 MARKETING PLANNING AND STRATEGY 3
PHL 313 BUSINESS ETHICS (PHL 313) 3
or REL 368 CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368) 3
General electives 6 6
Arts Study elective 3
PHL/REL elective 3
ECO elective 3
MKT elective 3
MKT elective 3

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5 SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
6 SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.
7 Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.
8 A minimum of 54 semester hours of all academic work must be at the 300-400 level.
9 Marketing electives selected in consultation with academic advisor.
10 Select any 300 or 400 level economics course.

Minor in Marketing (MKT)

Marketing (for business majors) 15
MKT 301 PRINCIPLES OF MARKETING 3
MKT electives (300- or 400-level) 3 12

Marketing (for non-business majors) 15
MKT 300 SURVEY OF MARKETING 3

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001793&c=-1&p=-1 7/10/2012
**MKT electives (300- or 400-level)**

In a pattern selected in consultation with an academic advisor.

### Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>MKT 300</td>
<td>SURVEY OF MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT 310</td>
<td>PRINCIPLES OF SELLING</td>
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<tr>
<td>MKT 315</td>
<td>RETAIL MARKETING</td>
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</tr>
<tr>
<td>MKT 330</td>
<td>SERVICES MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT 340</td>
<td>MULTICULTURAL MARKETING ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>MKT 341</td>
<td>BUSINESS-TO-BUSINESS MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT 350</td>
<td>INTERNET AND ELECTRONIC MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT 405</td>
<td>CONSUMER BEHAVIOR</td>
<td>3</td>
</tr>
</tbody>
</table>

**Survey of marketing for non-marketing majors.** Course introduces students to market and environmental analysis, marketing strategy and link with corporate strategy, market segmentation, organizational and consumer markets, and marketing mix (product, price, promotion, distribution).  
**Prerequisite(s):** Non-business majors only; junior standing.

**The general principles and practices underlying the processes of marketing.** Analysis of the environmental conditions of manufacturers, wholesalers, retailers, and other marketing agencies.  
**Prerequisite(s):** Business majors only; junior standing.

**The nature of selling, explored through the practical application of buying motives and selling techniques.** Projects and role-playing to experience the preparation, closing, and post-purchase phases of selling.  
**Prerequisite(s):** MKT 300 or 301.

Survey of the development of retailing and the impact of consumer behavior, fashion, computers, and other innovations. Structural organization, location, and layout. Merchandising operations including planning of sales, purchases, stock control, markup, and expense control.  
**Prerequisite(s):** MKT 300 or 301.

Basic concepts of services marketing including discussion of marketing concepts and their management implications in services organizations, the scope of ethics and social responsibility at the national and global levels, and how the external environment, both domestic and international, influences organization strategy.  
**Prerequisite(s):** MKT 300 or 301.

Study of basic concepts and theories of multicultural marketing. Students acquire basic understanding of culture, awareness of cultural differences, and appreciation of importance of cultural adaptation for marketing program, especially as related to development of marketing systems.  
**Prerequisite(s):** MKT 300 or 301.

Concepts and analytical procedures associated with marketing to business. Business consumer and competitor analysis, marketing information systems, marketing research, and demand forecasting. Strategy development in product, promotion, distribution, and pricing with focus on manufacturers of business products.  
**Prerequisite(s):** MKT 300 or 301.

Comprehensive study of the internet as a marketing channel and as an economic and social phenomenon. Emphasis is on role of internet in firm's overall marketing efforts, especially marketing mix, target markets, and external environment; principles of e-commerce; and application of course knowledge in a managerial and decision-making context.  
**Prerequisite(s):** MKT 300 or 301.

Comprehensive study of buyer decision making which offers insight into the buyer-seller relationship. Application of theories from psychology and social psychology to investigate the behavior of industrial and consumer buyers.  
**Prerequisite(s):** MKT 300.
MKT 406 MARKETING CHANNELS
Study of the place element of the marketing mix. A focus on the relationships among manufacturers, wholesalers, and retailers. Channel structure and design including franchising.
**Prerequisite(s):** MKT 300 or 301.

MKT 408 MARKETING LOGISTICS
Study of the physical distribution element of the marketing mix. Customer service, service quality, transportation, inventory, warehousing, and information systems used by manufacturers and retailers.
**Prerequisite(s):** MKT 300 or 301.

MKT 411 SALES MANAGEMENT
The structure of the sales organization; determination of sales policies; selection, training, and motivation of salespersons; establishing sales territories and quotas.
**Prerequisite(s):** MKT 301, 310.

MKT 420 ENTREPRENEURIAL MARKETING
Study of the techniques used to profitably identify and fill customers' needs when operating within a limited budget during the early stages of a start-up or in a small to medium sized firm. Course strives to develop skills in applying basic marketing principles and high impact sales and promotion techniques in integrated manner to produce a practical, cost-effective action plan for start-ups and smaller companies. Also listed as MGT 420.
**Prerequisite(s):** MKT 300 or 301.

MKT 421 ADVERTISING
Nature and scope of advertising, social and economic aspects, role of research, creative strategy, media planning and selection, coordination with other marketing efforts.
**Prerequisite(s):** MKT 300 or 301.

MKT 428 PROMOTION MANAGEMENT
Integration course to familiarize marketing students interested in promotion and marketing communication with tools necessary for the development, implementation, and management of promotional programs. Focus on management and coordination of advertising, personal selling, publicity and public relations, sales promotion, and collateral materials.
**Prerequisite(s):** MKT 300 or 301.

MKT 435 NEW PRODUCT DEVELOPMENT
Investigation and analysis of the new product development process, the management of a product through its life cycle, and the importance of the price variable in the product management process.
**Prerequisite(s):** MKT 301.

MKT 440 GLOBAL MARKETING
Emphasis on understanding global marketing environments, developing skills of global market analysis, designing and developing appropriate marketing strategies for global markets, decision making in global marketing.
**Prerequisite(s):** MKT 300 or 301.

MKT 445 SPECIAL TOPICS IN INTERNATIONAL MARKETING
Study abroad program. Subject varies from time to time. May be taken more than once if topic changes.
**Prerequisite(s):** Junior standing.

MKT 450 BUYER BEHAVIOR AND MARKET ANALYSIS
Integration of theoretical components of buyer behavior and marketing research. Emphasis placed on how marketing managers use concepts from these bodies of knowledge to make better decisions. Topics include common processes and methods of contemporary market research, analysis of purchase decisions, market research techniques used to gather information about purchase decisions, and use of information to formulate and implement a marketing strategy.
**Prerequisite(s):** MKT 301; junior standing.

MKT 455 MARKETING PLANNING AND STRATEGY
Integrative course in marketing with emphasis on managerial decision making. The course is designed around a strategic marketing planning
approach with a clear emphasis on how to do strategic analysis and marketing planning.

**Prerequisite(s):** ACC 207, 208; FIN 301; MKT 450; senior standing.

**MKT 480 SUPPLY CHAIN MANAGEMENT STRATEGIES**

Concepts, analytical techniques, and solution methods for designing and managing integrated supply chains. Strategic issues of integrated supply chain design and management, including inventory management, logistics network design, distribution systems, strategic alliances, value of information for centralized decisions and risk-pooling, information technology and decision support, and international supply chain management. (Also listed as OPS 480 and taught by OPS faculty.)

**Prerequisite(s):** MKT 301; OPS 401.

**MKT 491 HONORS THESIS**

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MKT 492 HONORS THESIS**

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MKT 494 SPECIAL TOPICS IN MARKETING**

Subject varies from time to time. May be taken more than once if topic changes.

**Prerequisite(s):** Varies with topic.

**MKT 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT**

Practical work experience associated with career development and career exploration. See Internship coordinator for details. Permission of department chair or designee required.

**Prerequisite(s):** BAI 295; prior completion of 6 semester hours of MKT; MKT major; junior standing; overall GPA of 2.7 or higher.

**MKT 498 COOPERATIVE EDUCATION**

Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Permission of chairperson or designee required. For general elective credit only.

**Prerequisite(s):** BAI 295; MKT major; overall GPA of 2.7 or higher.

**MKT 499 INDEPENDENT STUDY IN MARKETING**

Study of one or more specific aspects of the marketing process with emphasis on individual reading and research. Subject matter to be determined by the instructor on the basis of interest and need of the student. Enrollment limited. Permission of chairperson or designee required.

**Prerequisite(s):** MKT 301; MKT major.
School of Business Administration

Management Information Systems, Operations Management and Decision Sciences (Collapse Description)

The Department of Management Information Systems, Operations Management, and Decision Sciences offers courses in several quantitative and systems areas, a major and a minor in management information systems, a major and minor in operations management, and a minor in decision sciences.

Faculty

Charles Wells, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Casey, Vlahos, Young
Sherman-Standard Register Professor of MIS, Thomas Ferratt
Sherman-Standard Register Professor of Data Management, Jeffrey Hoffer
Nehaus Chair in Operations Management, John Kanet
Professors: Ahire, Dunne, Ferratt, Hoffer, Kanet, Wells
Associate Professors: Amsden, Prasad
Assistant Professors: Enns, Gorman, Salisbury
Lecturers: Davis, McManamon, Wagner

Sub-Categories / Concentrations / Focus Areas

- Decision Sciences
- Management Information Systems
- Operations Management

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic concepts of statistics including descriptive statistics, probability, probability distributions, and estimation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 128; BAI 103L; MTH 129 must be taken before or simultaneously with DSC 210.</td>
<td></td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Tests of hypotheses, analysis of variance, simple and multiple regression and correlation, and nonparametric methods. Use of computer software for statistical data analysis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> DSC 210; MTH 129.</td>
<td></td>
</tr>
<tr>
<td>DSC 313</td>
<td>ADVANCED BUSINESS STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Selected topics from advanced statistics with emphasis on business applications.</td>
<td></td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> DSC 211 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>DSC 370</td>
<td>DECISION SUPPORT SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Information systems and mathematical modeling for managerial analysis and decision making. Develops skills to solve problems using computer-based modeling in selected disciplines, such as marketing or finance. Topics include components of a DSS, linear programming, simulation modeling, group decision making, and intelligent support systems.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> DSC 211; MIS 301; OPS 301; MIS 175 recommended.</td>
<td></td>
</tr>
<tr>
<td>DSC 410</td>
<td>DECISION THEORY</td>
<td>3</td>
</tr>
<tr>
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<td>Introduction to the analysis of decisions under uncertainty. Topics include structuring of the decision process, Bayesian decision theory, and multicriteria decision making.</td>
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</tr>
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<td></td>
</tr>
</tbody>
</table>
School of Business Administration
Management Information Systems, Operations Management and Decision Sciences

You are currently viewing Decision Sciences, an academic area in Management Information Systems, Operations Management and Decision Sciences. To view academic information for Management Information Systems, Operations Management and Decision Sciences, click here.

(DSC) Decision Sciences (Collapse Description)
The Department of Management Information Systems, Operations Management, and Decision Sciences offers courses in several quantitative and systems areas, a major and a minor in management information systems (see MIS), a major and minor in operations management (see OPS) and a minor in decision sciences.

Decision sciences is the study of analysis, quantitative methodologies, and their application to the functional and behavioral problems of any organization. The major areas of study include applied statistics, operations research, and production and operations management. All business students take three decision sciences and operations management courses as part of their core business coursework: DSC 210, Statistics for Business I; DSC 211, Statistics for Business II; and OPS 301, Production and Operations Management.

The minor in decision sciences (DSC) offers business majors and other students an opportunity to develop their skills in the quantitative methods which support managerial decision making. A minor in decision sciences consists of twenty-one semester hours.

Specific courses in other areas (e.g. mathematics) may be used. See chairperson for approval.

Faculty
E. James Dunne, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Casey, Vlahos, Young
John Kanet, Niehaus Chair in Operations Management
Professors: Ahire, Dunne, Ferratt, Hoffer, Kanet, Wells
Associate Professors: Amsden, Prasad
Assistant Professors: Enns, Gorman, Salisbury
Lecturers: Davis, McManamon, Wagner

Majors/Minors

Major/Minor Name

Minor in Decision Sciences (DSC)

<table>
<thead>
<tr>
<th>Decision Sciences</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
</tr>
<tr>
<td>DSC 370</td>
<td>DECISION SUPPORT SYSTEMS</td>
</tr>
<tr>
<td>MIS 175</td>
<td>INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS</td>
</tr>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
</tr>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
</tr>
<tr>
<td>Select three additional semester hours from DSC, MIS, or OPS (300- or 400-level)</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to courses used to satisfy the requirements of any other major or minor. Approval of the chairperson.
### Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Sem. Hrs.</th>
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<td>Information systems and mathematical modeling for managerial analysis and decision making. Develops skills to solve problems using computer-based modeling in selected disciplines, such as marketing or finance. Topics include components of a DSS, linear programming, simulation modeling, group decision making, and intelligent support systems.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> DSC 211 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>DSC 415</td>
<td>SIMULATION MODELING AND ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to simulation models in support of business decision making. Emphasis on building and analyzing models in a variety of applications, including manufacturing and service systems. Study and use of a simulation language.</td>
<td></td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> DSC 211; DSC 370 recommended.</td>
<td></td>
</tr>
<tr>
<td>DSC 435</td>
<td>ANALYSIS OF FACTORY SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Concepts and techniques for the analysis, design, and management of factory production systems. Work-flow layout, scheduling techniques, stochastic process models, simulations, and computerized factory models.</td>
<td></td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> DSC 370, OPS 301.</td>
<td></td>
</tr>
<tr>
<td>DSC 491</td>
<td>HONORS THESIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.</td>
<td></td>
</tr>
<tr>
<td>DSC 492</td>
<td>HONORS THESIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.</td>
<td></td>
</tr>
<tr>
<td>DSC 494</td>
<td>SEMINAR IN DECISION SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of selected topics or issues in applied statistics, quantitative business analysis, and production and operations management. Topics vary from time to time. May be taken more than once if topics change. Title will reflect topics covered in a particular offering.</td>
<td></td>
</tr>
<tr>
<td>DSC 497</td>
<td>LABORATORY WORK EXPERIENCE</td>
<td>1-6</td>
</tr>
<tr>
<td></td>
<td>Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, or governmental organization, practical experience in work associated with the student's minor concentration. (See internship coordinator for details.) Does not satisfy MIS</td>
<td></td>
</tr>
</tbody>
</table>
elective. Permission of chairperson required.

Prerequisite(s): Permission of department chairperson.

DSC 499 INDEPENDENT STUDY IN DECISION SCIENCES 1 - 6

Research in conjunction with a faculty member on a subject within the general area of decision sciences. Normally open only to juniors and seniors who have attained a cumulative grade-point average of 3.0 or above. Permission of chairperson required.

Prerequisite(s): Permission of department chairperson.
School of Business Administration
Management Information Systems, Operations Management and Decision Sciences

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(MIS) Management Information Systems

The major in management information systems enables the student to design, implement, and maintain effective information systems in organizations. The curriculum integrates the technical knowledge of computer and networking technologies and the business and organizational knowledge of the business curriculum. Significant emphasis is placed on developing the students' writing and speaking skills in presenting the results of their work and in team problem solving.

The curriculum prepares the graduate to assume any of a variety of positions in organizations dealing with the design, development, and maintenance of information systems as well as the education and training of users of information systems.

The curriculum consists of four major groups of courses:

1. General education provides the student with a well rounded liberal education and includes such courses as history, philosophy, art, science, and English.
2. Business provides the student with the business and organizational concepts and skills to perform effectively in organizations.
3. Computer science provides the student with the technical knowledge necessary to design and build effective information systems. Specifically, two courses in programming business applications and computer system networking and architecture are required: CPS 225 (which can be taken instead of MIS225) and CPS 437.
4. Management information systems provides knowledge and skills for analyzing the need for building systems supporting the information and decision needs in any organization. Specifically, the major consists of MIS 175, Introduction to Business Applications; MIS 380, Systems Analysis and Re-engineering; MIS 385, Systems Implementation with Database Management Systems; MIS 465, Analysis and Design in Teams; MIS 475, Design and Implementation in Teams; and an MIS elective, which allows students to develop greater depth in a particular area of the field.

The program below contains all of the requirements for the major in management information systems. There is flexibility in the sequencing of some courses (e.g., PHL 103) can be taken during either the first or the second semester; some courses listed in the first year can just as well be taken during the second year, and vice-versa; and some upper-level courses can also be taken during various terms of the junior and senior years. Consult your academic advisor for sequencing options.

Faculty
E. James Dunne, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Casey, Vlahos, Young
John Kanet, Niehaus Chair in Operations Management
Professors: Ahire, Dunne, Ferratt, Hoffer, Kanet, Wells
Associate Professors: Amsden, Prasad
Assistant Professors: Enns, Gorman, Salisbury
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Majors/Minors

Major/Minor Name
Bachelor of Science with a major in Management Information Systems (MIS)
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-Year</td>
<td>BAI 103L</td>
<td>BUSINESS COMPUTING LABORATORY</td>
<td>1</td>
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<tr>
<td></td>
<td>BAI 1501</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
<td>1</td>
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<tr>
<td></td>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
<td>3</td>
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<tr>
<td></td>
<td>MTH 1282</td>
<td>FINITE MATHEMATICS</td>
<td>3</td>
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<tr>
<td></td>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
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<td></td>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
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<td></td>
<td>Physical and Life Science elective</td>
<td>3</td>
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<tr>
<td>Second-Year</td>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
<td>1</td>
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<tr>
<td></td>
<td>CMM 1114</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
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<tr>
<td></td>
<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
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<tr>
<td></td>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<td></td>
<td>MTH 1295</td>
<td>CALCULUS FOR BUSINESS</td>
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<td></td>
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<td>Physical and Life Science elective</td>
<td>3</td>
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<td></td>
<td></td>
<td>Social Science elective</td>
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<tr>
<td>Sophomore-Year</td>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
<td>3</td>
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<tr>
<td></td>
<td>CMM 113</td>
<td>INTERVIEWING</td>
<td>1</td>
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<tr>
<td></td>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
<td>3</td>
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<tr>
<td></td>
<td>MIS 1755</td>
<td>INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS</td>
<td>3</td>
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<tr>
<td>Second-Year</td>
<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
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<tr>
<td></td>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>1</td>
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<tr>
<td></td>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>3</td>
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<tr>
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<td>MIS 225</td>
<td>PROGRAMMING FOR BUSINESS</td>
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<tr>
<td>Junior-Year</td>
<td>FIN 301</td>
<td>BUSINESS FINANCE</td>
<td>3</td>
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<td></td>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Additional Communication Requirements*</td>
<td>3</td>
</tr>
<tr>
<td>Second-Year</td>
<td>MIS 380</td>
<td>SYSTEMS ANALYSIS AND RE-ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MIS 385</td>
<td>SYSTEMS IMPLEMENTATION WITH DATABASE MANAGEMENT SYSTEMS</td>
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</tr>
<tr>
<td></td>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
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<td></td>
<td>Arts Study elective†</td>
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<td></td>
<td>MIS elective‡</td>
<td>3</td>
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<tr>
<td>Senior-Year</td>
<td>CPS 437</td>
<td>SYSTEM ARCHITECTURES AND NETWORKING</td>
<td>3</td>
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<tr>
<td></td>
<td>MIS 465</td>
<td>MIS PROJECT I-ANALYSIS AND DESIGN IN TEAMS</td>
<td>3</td>
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<tr>
<td></td>
<td>PHL 313 or REL 368</td>
<td>BUSINESS ETHICS (PHL 313) or CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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<td>ECO elective§</td>
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<tr>
<td></td>
<td>General electives‡</td>
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Second-Term

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MGT 490</td>
<td>MANAGING THE ENTERPRISE</td>
<td>3</td>
</tr>
<tr>
<td>MIS 475</td>
<td>MIS PROJECT II - DESIGN AND IMPLEMENTATION IN TEAMS</td>
<td>3</td>
</tr>
<tr>
<td>HST elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHL/REL elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1Credit by examination for BAI 103L is available for those with adequate background.

2MTH 102 is recommended for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement. MTH 168 is recommended in lieu of both MTH 128 and 129 for students with high mathematics test scores.

3SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.

4To be taken the semester immediately following BAI 103L.

5SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to ECO 203 and 204 and an economics elective.

6This may be taken any time after completing BAI 103L.

7Select from ENG 370, ENG 372, ENG 378; CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420. MIS majors are encouraged to take ENG 378.

8Select must select from DSC 370, MIS 360, MIS 467, or approved special topics courses listed as MIS 494 in the class schedule.

9Select any 300 or 400 level economics course.

10Students may fulfill up to six semester hours of general elective requirements by Internship or cooperative education credits. See chairperson for approval.

11A minimum of 54 semester hours must be at the 300-400 level.

Minor in Management Information Systems (MIS)

<table>
<thead>
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<th>Sem. Hrs.</th>
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</thead>
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<tr>
<td>BAI 103L</td>
<td>BUSINESS COMPUTING LABORATORY</td>
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</tr>
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<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td>DSC 370</td>
<td>DECISION SUPPORT SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>MIS 175</td>
<td>INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS</td>
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</tr>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
<td>3</td>
</tr>
<tr>
<td>MIS 380</td>
<td>SYSTEMS ANALYSIS AND RE-ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>Select three additional semester hours from MIS, DSC, or OPS (300- or 400-level)</td>
<td>3</td>
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</tr>
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Courses (Collapse All Courses)

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<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>MIS 175</td>
<td>INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS</td>
<td>3</td>
</tr>
</tbody>
</table>

Introduction to the role of information technology (IT) in business, graphical user interface design using a visual programming language. Object oriented programming using Visual Basic.net and VBA for Excel.

Prerequisite(s): BAI 130L or equivalent.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>MIS 225</td>
<td>PROGRAMMING FOR BUSINESS SYSTEMS</td>
<td>4</td>
</tr>
</tbody>
</table>

Process of software development for business system implementation. Fundamental programming concepts including program design, documentation, development, and testing of computer solutions of business problems using modern programming languages, such as Java and C++. Prerequisite(s): MIS 175.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
<td>3</td>
</tr>
</tbody>
</table>

(Formerly MIS 365) Survey of theory and applications of computer-based information systems in organizations. The role of information in
organizational processes, current information technology, decision support systems, and end-user computing and distributed processing systems. **Prerequisite(s):** ACC 207; ACC 208 or ACC 301 no later than in conjunction with MIS 301; BAI 103L or HSS 226; ECO 203.

**MIS 360** E-COMMERCE PROCESSES AND TECHNOLOGY

Introduction to information system technologies and techniques that enable business-to-business and business-to-consumer electronic relationships. **Prerequisite(s):** BAI 103L; MIS 175 or equivalent exposure to computer programming; MIS 301; MIS 494 Basic Web Development HTML knowledge.

**MIS 380** SYSTEMS ANALYSIS AND RE-ENGINEERING

Concepts, methods, techniques, and tools needed to initiate a systems development project and to conduct the requirements collection, analysis, and structuring activities of systems development. Structured life cycle and alternatives. Re-engineering business processes through information systems. **Prerequisite(s):** MIS 175, 301.

**MIS 385** SYSTEMS IMPLEMENTATION WITH DATABASE MANAGEMENT SYSTEMS

Concepts, techniques, and tools to convert a logical system design into a working application using a relational DBMS. File and data structures, logical and physical database design, security and data integrity, file design and processing. DBMS functions, SQL, 3GL and 4GL access to databases, linkage to WWW pages, database architectures, CASE. **Prerequisite(s):** CPS 225 or MIS 225 or permission of instructor.

**MIS 410** OBJECT-ORIENTED ANALYSIS AND DESIGN

Introduction to object-oriented concepts and techniques for analyzing and designing systems. Systems development project using an object-oriented CASE tool. **Prerequisite(s):** MIS 301 or permission of instructor; MIS 175 recommended.

**MIS 420** EXPERT AND KNOWLEDGE-BASED SYSTEMS

Introduction to artificial intelligence and expert and knowledge-based systems; knowledge acquisition, implementation, and validation, advanced topics; applications to business. Use of expert system software. **Prerequisite(s):** BAI 103L or equivalent; DSC 370 recommended.

**MIS 425** INFORMATION FOR TOTAL QUALITY

Theory and practice of total quality management (TQM); applications of TQM in the information systems function, information system requirements for TQM programs. **Prerequisite(s):** MIS 301; OPS 301.

**MIS 430** TELECOMMUNICATIONS AND NETWORKING

Introduction to computer-based communication networks; underlying concepts; basic hardware components and operating systems; network architectures and protocols; data integrity and security; message routing; network management. **Prerequisite(s):** MIS 380.

**MIS 461** E-BUSINESS

Models of how to conduct business electronically. Topics include different forms of e-business, products and services provided on the Internet, how to combine electronic business with brick-and-mortar business, and keys to success for electronically enhanced businesses. **Prerequisite(s):** MIS 301.

**MIS 465** MIS PROJECT I-ANALYSIS AND DESIGN IN TEAMS

First of a two-course sequence. Team participation/management and project management skills. Apply these skills in teams to perform an analysis and preliminary re-design of an existing organization's information system. Emphasis on written and oral communications, including team-prepared reports and presentations. Offered Fall semester only. **Prerequisite(s):** CPS 310 or MIS 380.

**MIS 467** DATA WAREHOUSING
Purpose, design, implementation, and effective use of data warehouses and data warehousing technologies. Topics include data warehouse design, data marts, data quality management, extract-transform-load process, and business intelligence.

**Prerequisite(s):** MIS 301, 385.

**MIS 475** MIS PROJECT II - DESIGN AND IMPLEMENTATION IN TEAMS 3
Continuation of MIS 465. With its organizational client, each team carries its project as far as possible towards final design and actual implementation. Emphasis on written and oral communications, including team-prepared reports and presentations. Offered during winter semesters only.

**Prerequisite(s):** CPS 437 or MIS 430; MIS 385, 465.

**MIS 491** HONORS THESIS 3
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MIS 492** HONORS THESIS 3
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MIS 494** SEMINAR IN MANAGEMENT INFORMATION SYSTEMS 1-4
Study of selected technical and/or organizational issues in information systems. Topics vary from time to time. May be taken more than once if topics change. Title will reflect topics covered in a particular offering.

**MIS 497** LABORATORY WORK EXPERIENCE 1-6
Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, or governmental organization; practical experience in work associated with the student's major concentration. (See internship coordinator for details.)

**Prerequisite(s):** Permission of chairperson.

**MIS 498** COOPERATIVE EDUCATION 1-6
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.)

**Prerequisite(s):** Permission of chairperson.

**MIS 499** INDEPENDENT STUDY 1-6
Research in conjunction with a faculty member on a subject within the general area of management information systems. Open only to juniors or seniors who have attained a cumulative grade point average of 3.0 or above.

**Prerequisite(s):** Permission of chairperson.
School of Business Administration
Management Information Systems, Operations Management and Decision Sciences

You are currently viewing Operations Management, an academic area in Management Information Systems, Operations Management and Decision Sciences. To view academic information for Management Information Systems, Operations Management and Decision Sciences, click here.

(OPS) Operations Management (Collapse Description)
The operations management program offered by the Department of Management Information Systems, Operations Management, and Decision Sciences includes a major and a minor in operations management (OM).

Students who major or minor in operations management learn how to manage the core operations of an organization. These core operations use the human, technical, and financial resources of the organization to create goods and services for customers. Operations managers apply technical and quantitative tools and techniques, together with behavioral skills, to manage the transformation of inputs into outputs desired by customers. Operations managers participate in these transformation processes in many different roles, including: process improvement analyst, quality assurance analyst, purchasing agent, production/inventory manager, warehouse manager, service facility manager, and operations consultant.

The major consists of 22 semester hours, which includes four required courses and three OM electives.

A minor in operations management is available to students who want to acquire basic skills in this area and understand that doing so will enhance their ability to manage operations in any functional area of a business. A minor in operations management consists of twenty-one semester hours.

Faculty
Jeffrey A. Hoffer, Chairperson
Professor Emeritus
Distinguished Service Professor: Bohlen
Professors Emeriti: Casey, Vlahos, Young
John Kanet, Niehaus Chair in Operations Management
Professors: Dunne, Ferratt, Hoffer, Kanet, Wells
Associate Professors: Ahire, Amsden, Prasad
Assistant Professors: Enns, Gorman, Salisbury
Lecturers: Davis, McManamon, Wagner

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Science with a major in Operations Management (OPS)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAI 103L¹</td>
<td>BUSINESS COMPUTING LABORATORY</td>
</tr>
<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
</tr>
<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
</tr>
<tr>
<td>CMM 110²</td>
<td>GROUP DECISION MAKING</td>
</tr>
<tr>
<td>ENG 101³</td>
<td>COLLEGE COMPOSITION I</td>
</tr>
<tr>
<td>ENG 102³</td>
<td>COLLEGE COMPOSITION II</td>
</tr>
<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
</tr>
<tr>
<td>MTH 128⁴</td>
<td>FINITE MATHEMATICS</td>
</tr>
<tr>
<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
</tr>
<tr>
<td>Physical and Life Science elective⁵</td>
<td>3</td>
</tr>
</tbody>
</table>

¹,²,³,⁴,⁵ Denote physical and life science electives.
<table>
<thead>
<tr>
<th>Social Science elective*</th>
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</thead>
<tbody>
<tr>
<td>Sophomore-Year</td>
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<tr>
<td>ACC 207</td>
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<tr>
<td>ACC 208</td>
<td>3</td>
</tr>
<tr>
<td>CMM 111*</td>
<td>1</td>
</tr>
<tr>
<td>CMM 113*</td>
<td>1</td>
</tr>
<tr>
<td>DSC 210</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
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<tr>
<td>ECO 203</td>
<td>3</td>
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<tr>
<td>ECO 204</td>
<td>3</td>
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<tr>
<td>MGT 201</td>
<td>3</td>
</tr>
<tr>
<td>Additional Communication Requirement*</td>
<td>3</td>
</tr>
<tr>
<td>Physical and Life Science elective*</td>
<td>3</td>
</tr>
<tr>
<td>HST elective*</td>
<td>3</td>
</tr>
<tr>
<td>Junior-Year</td>
<td>15</td>
</tr>
<tr>
<td>First-Term</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>3</td>
</tr>
<tr>
<td>MGT 301</td>
<td>3</td>
</tr>
<tr>
<td>MIS 301</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
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<tr>
<td>OPS 301</td>
<td>3</td>
</tr>
<tr>
<td>Second-Term</td>
<td>15</td>
</tr>
<tr>
<td>OPS 350</td>
<td>3</td>
</tr>
<tr>
<td>OPS 401</td>
<td>3</td>
</tr>
<tr>
<td>--- PHL 313</td>
<td>3</td>
</tr>
<tr>
<td>or REL 368</td>
<td>3</td>
</tr>
<tr>
<td>Arts Study elective*</td>
<td>3</td>
</tr>
<tr>
<td>OPS elective</td>
<td>3</td>
</tr>
<tr>
<td>Senior-Year</td>
<td>15</td>
</tr>
<tr>
<td>First-Term</td>
<td>3</td>
</tr>
<tr>
<td>OPS 480</td>
<td>3</td>
</tr>
<tr>
<td>PHL/REL elective*</td>
<td>3</td>
</tr>
<tr>
<td>General elective*</td>
<td>3</td>
</tr>
<tr>
<td>ECO elective*</td>
<td>3</td>
</tr>
<tr>
<td>OPS elective</td>
<td>3</td>
</tr>
<tr>
<td>Second-Term</td>
<td>16</td>
</tr>
<tr>
<td>MGT 490</td>
<td>3</td>
</tr>
<tr>
<td>OPS 495</td>
<td>4</td>
</tr>
<tr>
<td>General elective*</td>
<td>6</td>
</tr>
<tr>
<td>OPS elective</td>
<td>3</td>
</tr>
</tbody>
</table>

* A proficiency test for BAI 103L is available for those with adequate background.

1 CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking these courses during the junior year. See faculty advisor for other sequencing possibilities.

3 Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.

4 MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.

5 SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.

6 SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.
Select from ENG 370, ENG 372, ENG 376, CMM 321, CMM 322, CMM 344, CMM 351 or CMM 420.

A minimum of 54 semester hours of all academic work must be at the 300-400 level.

Select any 300 or 400 level economics course.

Minor in Operations Management (OPS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>OPS 350</td>
<td>BUSINESS PROCESS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>OPS 401</td>
<td>OPERATIONS PLANNING AND CONTROL</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select six additional semester hours from DSC, OPS, MIS, or IET</td>
<td>6</td>
</tr>
</tbody>
</table>

Approved by the chairperson.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Concepts and OM software-based techniques of designing, implementing, managing, and improving operations in manufacturing and service organizations, including project management, service systems design, resource allocation, facility location, layout, aggregate planning, scheduling, and material requirements planning. Survey of major OM strategies such as: just-in-time production, total quality management, business process reengineering, synchronous manufacturing, enterprise resource planning, and supply chain management. <strong>Prerequisite(s):</strong> ACC 207, (ACC 301 or ACC 208 as either a prerequisite or corequisite); DSC 211 or equivalent; ECO 203.</td>
<td></td>
</tr>
<tr>
<td>OPS 350</td>
<td>BUSINESS PROCESS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Concepts of business process management and improvement in manufacturing/service firms. Simulation analysis of business processes through mapping and improvement evaluation using software packages such as ProcessModel. Other tools of business process analysis (operations charts, time-function mapping, work-flow analysis, etc.). Behavioral/managerial issues of business process improvement (benchmarking, incremental versus radical change, and management of change). <strong>Corequisite(s):</strong> OPS 301.</td>
<td></td>
</tr>
<tr>
<td>OPS 401</td>
<td>OPERATIONS PLANNING AND CONTROL</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Concepts and techniques of operations design, on-going management and improvement. Advanced treatment topics: including total quality management, just-in-time, operations scheduling, synchronous manufacturing, and enterprise resource planning (ERP). Software-based analysis of ERP operations. Linkages between technical and managerial/organizational issues in planning and controlling operations in manufacturing and service organizations. <strong>Prerequisite(s):</strong> OPS 301. <strong>Corequisite(s):</strong> OPS 350.</td>
<td></td>
</tr>
<tr>
<td>OPS 413</td>
<td>PROJECT MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A broad coverage of technical and human management issues in projects. Emphasis on project planning, scheduling, tracking, and close-down. Task time and cost estimation and description. Use of computer software. Team building and other aspects of managing project teams. <strong>Prerequisite(s):</strong> OPS 301.</td>
<td></td>
</tr>
<tr>
<td>OPS 430</td>
<td>QUALITY AND JUST IN TIME MANUFACTURING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The concepts of just-in-time manufacturing, total quality system, and statistical process control. Projects, tours, and guest speakers. <strong>Prerequisite(s):</strong> OPS 301.</td>
<td></td>
</tr>
<tr>
<td>OPS 440</td>
<td>CONTINUOUS IMPROVEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>
Theory and practice of continuous improvement especially as applied in manufacturing; comparison to the traditional operations management approach, tools and techniques, the KAISEN approach.

**Prerequisite(s):** OPS 301.

**OPS 480 SUPPLY CHAIN MANAGEMENT STRATEGIES**  
- Conceptual techniques, and solution methods for designing and managing integrated supply chains. Strategic issues of integrated supply chain design and management, including inventory management, logistics network design, distribution systems, strategic alliances, value of information for centralized decisions and risk-pooling, information technology and decision support, and international supply chain management.  
- **Prerequisite(s):** OPS 401.

**OPS 491 HONORS THESIS**  
- Selection, design, investigation, and completion of an independent and original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**OPS 492 HONORS THESIS**  
- Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**OPS 494 SEMINAR IN OPERATIONS MANAGEMENT**  
- Study of selected topics or issues in operations management. Topics vary from time to time. May be taken more than once if topics change. Title will reflect topics covered in a particular offering.

**OPS 495 CAPSTONE OM PROJECT**  
- Experiential project applying operations management concepts and techniques to practical problems with faculty supervision. Student teams address significant operational problems and opportunities in real-world service and manufacturing firms. Teams write recommendation/implementation reports and make presentations of their work.  
- **Corequisite(s):** OPS 480.

**OPS 497 LABORATORY WORK EXPERIENCE**  
- Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, government, or other organization, practical experience in work associated with the student's major. (See internship coordinator for details.) May satisfy OPS elective, with chairperson approval.

**OPS 498 COOPERATIVE EDUCATION**  
- Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details). Permission of chairperson required.

**OPS 499 INDEPENDENT STUDY IN OPERATIONS MANAGEMENT**  
- Research in conjunction with a faculty member on a subject within the general area of operations management. Normally open only to juniors and seniors who have attained a cumulative grade-point average of 3.0 or above. Permission of chairperson required.
College of Arts and Sciences
(MTH) Mathematics  (Collapse Description)

The B.A. program in mathematics provides for a breadth of mathematical study within the context of a liberal arts degree. It may be chosen as a preparation for a professional career in business, education, law or social science. It affords the student a significant distribution of courses in the humanities and social sciences so that he or she can develop a concentration in a field other than mathematics. The student's career goals will generally suggest desirable upper level mathematics electives. For example, prospective secondary mathematics teachers should participate in the licensure program and elect courses such as MTH 370, 395, and 466. Students with an interest in business, law or social science should complete the probability and statistics sequence MTH 411-412; also MTH 483 is a good choice for students planning to enter the business world.

The B.S. program in mathematics provides a foundation for students who wish to pursue graduate studies in any area of the mathematical sciences, to enter the actuarial profession, or to enter careers where mathematics is used in an engineering or science setting. A preparation for graduate programs in a mathematical science should include electives such as MTH 342, 404 and 471. A preparation for the actuarial examinations would include the probability and statistics sequence MTH 411-412 and MTH 483; in addition, actuarial preparation should include a year of accounting, a year of economics and a course in numerical methods CPS 353. To prepare for using mathematics in an applied context, some useful elective courses are MTH 403, 404, and the MTH 411-412 sequence.

The basic courses MTH 168, 169, 218, 302, and 302 are offered every term and the required core courses are offered at least once a year. However, most of the other upper-level electives for the major are offered only once every two years; thus careful planning for a student's upper-level electives should be done in consultation with the advisor. In addition, the symbolic logic course, PHL 302, is a recommended general education course for all mathematics majors.

The B.S. program in applied mathematical economics provides a foundation in economics, mathematics and statistics needed for graduate study in economics or applied statistics, or for research and technical careers in business or government service. This degree is offered jointly by the Department of Mathematics and the Department of Economics and Finance in the School of Business Administration.

A minor in mathematics consists of twelve semester hours (300-400 level).

Faculty
Paul W. Eloe, Chairperson
Distinguished Service Professor: Peterson
Professors Emeriti: Back, Friel, Ganthner, McCloskey, Rice, Schleppi, R. Steinlage, Strange
Professors: Eloe, Higgins, Islam
Associate Professors: Gorton, Mashburn, Mushenheim, Raffoul, Shaughnessy, Sheng
Assistant Professors: Abueida, Diestelkamp, Driskell, Edwards, Hovey, Kaufin, Krakowski, Liu, Parker
Lecturers: Ober, Saintignon, L. Steinlage

Majors/Minors  (Collapse All)

Bachelor of Arts with a major in Mathematics (MTA)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>36</td>
</tr>
<tr>
<td>MTH 168, 169, 218, 302, 330, 361, 411</td>
<td>24</td>
</tr>
<tr>
<td>MTH electives (300- and 400-level)</td>
<td>12</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum
| Humanities and Fine Arts                      | 12 |
| Philosophy and Religious Studies             | 12 |
| History                                      |  6 |
| Literature: English or Foreign Language      |  3 |
| Creative and Performing Arts                 |  3 |
| Foreign Language and/or Additional Arts and/or Humanities | 3-9 |
| Social Sciences                              | 12 |
| Natural Sciences                             | 11 |

Communication Competencies                     |  0-9 |
Introduction to the University: ASI 150          |  0-1 |
**General Education courses/academic electives to total at least** | 124 |

Bachelor of Science with a major in Applied Mathematical Economics (MTE)

**APPLIED MATHEMATICAL ECONOMICS COMMITTEE**
Elizabeth Gustafson (Economics), Chairperson
Eloe (Mathematics), Mashburn (Mathematics), Poitras (Economics)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Economics</td>
</tr>
<tr>
<td>ECO 203, 204, 346, 347, 441</td>
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<tr>
<td>Economics elective (300- or 400-level)</td>
</tr>
<tr>
<td>Mathematics</td>
</tr>
<tr>
<td>MTH 168, 169, 218, 302, 330, 411, 412</td>
</tr>
<tr>
<td>MTH elective (300- or 400-level)</td>
</tr>
</tbody>
</table>

Breadth Requirement                             |  35 |
Natural Sciences (select one grouping of courses from the following): |  8 |
| BIO 151-151L, 152-152L                         |    |
| CHM 123-123L, 124-124L                         |    |
| GEO 115-115L, 116-116L                         |    |
| PHY 206, 207, 210L, 211L                       |    |
| Computer Science                               |  7 |
| CPS 150                                       |  4 |
| CPS elective (300- or 400-level)               |  3 |
| Social and Behavioral Sciences                 |  6 |
| Humanities                                    |  9 |
| Philosophy and Religious Studies               | 12 |

Communication Competencies                     |  0-9 |
Introduction to the University: ASI 150          |  0-1 |
**General Education courses/academic electives to total at least** | 120 |

Bachelor of Science with a major in Mathematics (MTH)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Mathematics</td>
</tr>
<tr>
<td>MTH 168, 169, 218, 219, 302, 330, 361, 430</td>
</tr>
<tr>
<td>MTH electives (300- and 400-level)¹</td>
</tr>
</tbody>
</table>

Breadth Requirement                             |  14 |
Natural Sciences (select one grouping of courses from the following): |  14 |
| BIO 151-151L, 152-152L                         |    |
| CHM 123-123L, 124-124L                         |    |
| GEO 115-115L, 116-116L                         |    |
Two additional courses acceptable for Science majors

Computer Science 3-4
CPS (132 or 150)
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

1Departmental approval required.

Minor in Mathematics (MTH)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>MTH 102</td>
<td>FUNDAMENTALS OF MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sets, functions and graphs, exponents, polynomials and algebraic equations, systems of equations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> One year of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 114</td>
<td>CONTEMPORARY MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A study of contemporary mathematical topics and their applications. Topics may include management science, statistics, social choice, size and shape, and computer mathematics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Two years of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 116</td>
<td>PRECALCULUS MATHEMATICS</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>A review of topics from algebra and trigonometry including polynomials, functions and graphs, exponential and logarithmic functions, trigonometric functions and identities.</td>
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</tr>
<tr>
<td>MTH 128</td>
<td>FINITE MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from mathematics used in business including systems of equations, inequalities, matrix algebra, linear programming and logarithms; applications to compound interest, annuities and other finance problems.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 102 or sufficient college preparatory mathematics.</td>
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</tr>
<tr>
<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from differential and integral calculus used in business; applications to optimizing financial functions, marginal functions in economics, and consumer or producer surplus.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 128 or sufficient college preparatory mathematics.</td>
<td></td>
</tr>
<tr>
<td>MTH 137</td>
<td>CALCULUS I WITH REVIEW</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Two years of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 138</td>
<td>CALCULUS I WITH REVIEW</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 137.</td>
<td></td>
</tr>
<tr>
<td>MTH 148</td>
<td>INTRODUCTORY CALCULUS I</td>
<td>3</td>
</tr>
</tbody>
</table>
Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to the life and social sciences.
**Prerequisite(s):** MTH 116 or equivalent.

**MTH 149  INTRODUCTORY CALCULUS II**
Continuation of MTH 148. Techniques of integration and differential equations with applications to the life and social sciences, indeterminate forms, infinite sequences and series.
**Prerequisite(s):** MTH 138 or 148.

**MTH 168  ANALYTIC GEOMETRY AND CALCULUS I**
Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to science and engineering.
**Prerequisite(s):** MTH 116 or equivalent.

**MTH 169  ANALYTIC GEOMETRY AND CALCULUS II**
Continuation of MTH 168. Conic sections, techniques of integration with applications to science and engineering, infinite series, indeterminate forms, Taylor's theorem.
**Prerequisite(s):** MTH 138 or 168.

**MTH 204  MATHEMATICAL CONCEPTS I**
First course of a two-semester sequence designed for pre-service teachers. Concepts necessary for an understanding of the structure of arithmetic and its algorithms, number patterns, sets, problem solving, percent, relation and proportion, use of calculators.
**Prerequisite(s):** One year of high school algebra; one year of high school geometry.

**MTH 205  MATHEMATICAL CONCEPTS II**
Continuation of MTH 204. Topics include probability, representing and interpreting data, the metric system, elementary geometry, geometric patterns, coordinate geometry, algebra and geometry, transformations, computer literacy.
**Prerequisite(s):** MTH 204.

**MTH 206  ALGEBRA AND CALCULUS CONCEPTS**
Development of the algebra of polynomials and functions; factoring and roots; mathematical induction and the binomial theorem; arithmetic and geometric sums; introduction to limiting processes; slopes and area estimations and computations.
**Prerequisite(s):** MTH 205.

**MTH 207  INTRODUCTION TO STATISTICS**
Introduction to the concepts of statistical thinking for students whose majors do not require calculus. Methods of presenting data, including graphical methods. Using data to make decisions and draw conclusions. Basic ideas of drawing a sample and interpreting the information that it contains.
**Prerequisite(s):** Two years of high school algebra.

**MTH 214  MATHEMATICAL CONCEPTS FOR MIDDLE SCHOOL TEACHERS**
Concepts necessary for an understanding of the arithmetic taught in both elementary and middle grades. Includes a study of the structure of arithmetic and its algorithms; problem solving; reasoning and proof; proportional reasoning; use of computers and calculators to solve problems.

**MTH 215  ALGEBRA, FUNCTIONS AND GRAPHS**
Development of the algebra of various families of functions including polynomial, exponential, logarithmic, and trigonometric functions; factoring and roots; interpretation of graphs; use of calculators and data collection devices to solve problems.
**Prerequisite(s):** MTH 214

**MTH 216  CALCULUS CONCEPTS AND APPLICATIONS**
Develop conceptual understanding of basic calculus concepts; introduction to the notion of limit; rates of change; slopes and area computations; use of calculators and data collection devices to make predictions, estimations, and solve problems.
**Prerequisite(s):** MTH 215 or permission of instructor.
MTH 218  ANALYTIC GEOMETRY AND CALCULUS III
Continuation of MTH 169. Solid analytic geometry, vectors and vector functions, multivariable calculus, partial derivatives, multiple integrals.
Prerequisite(s): MTH 169.

MTH 219  APPLIED DIFFERENTIAL EQUATIONS
First order equations, linear equations with constant coefficients, systems of equations, the Laplace transform, numerical methods, applications.
Prerequisite(s): MTH 218.

MTH 250  ADVANCED TECHNICAL MATHEMATICS
Appropriate analytical techniques for students of engineering technology; topics include integration by parts, multivariable calculus, complex numbers, matrices and system of linear equations, and first and second order differential equations. Applications are appropriate for the engineering technology programs (circuits, vibrations, and heat transfer).
Prerequisite(s): MTH 138 or 168.

MTH 266  DISCRETE AND FINITE MATHEMATICS FOR MIDDLE SCHOOL TEACHERS
Introduction to topics in finite and discrete mathematics; linear programming; applications in finance; graph theory; mathematics of social choice; logic; use of computers and calculators to model and solve problems.
Prerequisite(s): MTH 214 or permission of instructor.

MTH 270  GEOMETRY CONCEPTS AND APPLICATIONS
Introduction to the geometry of two- and three-dimensional space; patterns in geometry; measurement systems; transformations and similarity; coordinate geometry; the algebra of geometry; trigonometry; use of dynamic computer software to explore geometric concepts.
Prerequisite(s): Prerequisite: MTH 214.

MTH 290  TOPICS IN (NAMED AREA) 1-3
Exploration of varying topics appropriate for the needs of the pre-service training of teachers of mathematics. May be repeated as topics change.
Prerequisite(s): One mathematics course beyond MTH 102; permission of chairperson and/or instructor.

MTH 295  HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS
Fundamental historical development of modern arithmetic, algebra, geometry, and number systems from early Egyptian, Babylonian, and Greek sources. Students may not receive credit for both this course and MTH 395.
Prerequisite(s): MTH 214 or permission of instructor.

MTH 301  ESSENTIALS OF MATHEMATICAL REASONING
Techniques of proof, mathematical induction, recursion, counting methods, symbolic logic. Introduction to algebra of sets, infinities, and axiom systems. Open to students who will enroll in upper-level mathematics courses.
Corequisite(s): MTH 218 or 302.

MTH 302  LINEAR ALGEBRA AND MATRICES
Fundamental concepts of vector spaces, determinants, linear transformations, matrices, inner product spaces, and eigen-vectors. Offered each term.
Prerequisite(s): MTH 218.

MTH 330  INTERMEDIATE ANALYSIS
Theoretical development of the calculus of a real-valued function of a real variable. Topics include the algebraic and topological properties of the real line, limits of sequences and functions, continuity, differentiability, and integration.
Prerequisite(s): MTH 302.

MTH 342  SET THEORY
Elementary set theory including relations, functions, indexed families, denumerable and non-denumerable sets, cardinal and ordinal arithmetic, Zorn's Lemma, the well-ordering principle and transfinite induction.
Prerequisite(s): MTH 218 or permission of instructor.
MTH 343 - MATHEMATICS FOR ELECTRICAL AND COMPUTER ENGINEERS
Linear algebra and matrices, complex variables, mathematical transforms and their inter-relations. Focus on mathematical theories as well as applications and an extensive use of MATLAB.
Prerequisite(s): MTH 219.

MTH 361 - INTRODUCTION TO ABSTRACT ALGEBRA
Fundamental concepts of groups, rings, integral domains and fields.
Prerequisite(s): MTH 218.

MTH 367 - STATISTICAL METHODS I
Probability distributions including binomial, hypergeometric, Poisson, and normal. Estimation of population mean and standard deviation: Confidence intervals and tests of hypotheses using t-, Chi-square, and F-statistics. Mathematics majors enroll in MTH 411 instead of 367.
Prerequisite(s): MTH 149 or 169.

MTH 368 - STATISTICAL METHODS II
Prerequisite(s): MTH 367.

MTH 370 - INTRODUCTION TO HIGHER GEOMETRY
Projective, affine, and hyperbolic geometries using synthetic and/or analytic techniques.
Prerequisite(s): MTH 218 or permission of instructor.

MTH 376 - NUMBER THEORY
Topics include Diophantine equations, Chinese Remainder theorem, Mobius inversion formula, quadratic residues and the Law of Quadratic Reciprocity, Gaussian integers, and integral quaternions.
Prerequisite(s): MTH 218.

MTH 395 - DEVELOPMENT OF MATHEMATICAL IDEAS
The evolution of mathematical ideas and techniques from ancient times to the present with emphasis on the Greek era. Famous people and famous problems. Chronological outline of mathematics in each of its branches along with applications.
Prerequisite(s): MTH 148 or 168 or permission of instructor.

MTH 403 - BOUNDARY VALUE PROBLEMS
Prerequisite(s): MTH 219.

MTH 404 - COMPLEX VARIABLES
Functions of a complex variable, conformal mapping, integration in the complex plane. Laurent series and residue theory.
Prerequisite(s): MTH 219.

MTH 411 - PROBABILITY AND STATISTICS I
Mathematical probability, combinatorial methods, random variables, Bayes' theorem, moments, Chebyshev's inequality, binomial, Poisson, and normal probability laws, moment generating functions, limit theorems.
Prerequisite(s): MTH 218.

MTH 412 - PROBABILITY AND STATISTICS II
Distribution theory, central limit theorem, random sampling, estimation of parameters including maximum likelihood, confidence intervals, the Neyman-Pearson lemma, tests of hypotheses, likelihood ratio tests, sampling from a normal population.
Prerequisite(s): MTH 411.

MTH 413 - PROBABILITY AND STATISTICS III
Statistical decision theory, partitioning of sums of squares, analysis of variance, regression on several independent variables, multiple regression.
approach to analysis of variance, design of experiments.

Prerequisite(s): MTH 412.

MTH 430 REAL ANALYSIS

Continuation of MTH 330. Topics include the theory of convergence of sequences and series of functions in the context of metric spaces, uniform continuity, uniform convergence, and integration.

Prerequisite(s): MTH 330.

MTH 435 ADVANCED MULTIVARIATE CALCULUS

Topics include directional derivatives, chain rule, Lagrange multipliers, Taylor's formula, the mean value theorem, inverse mapping theorem, implicit function theorem, integration, Fubini's theorem, change of variables, line integrals, Green's theorem and Stoke's theorem.

Prerequisite(s): MTH 302.

MTH 440 INTRODUCTION TO MATHEMATICAL MODELING

Introduction to the use of mathematical techniques and results in constructing and modifying models designed to solve problems encountered in everyday life. Computer simulation and limitations thereof, dimensional analysis, scaling, and approximations at various levels.

Prerequisite(s): MTH 219, 302; permission of instructor.

MTH 441 MATHEMATICS CLINIC

Student teams will be responsible for the development and/or modification and testing of a mathematical model designed for a particular purpose. Faculty guidance.

Prerequisite(s): MTH 440; permission of chairperson.

MTH 445 SPECIAL TOPICS IN NAMED AREA

Lectures in specialized areas such as abstract algebra, applied mathematics, complex variables, differential forms, functional analysis, Galois theory, game theory, general topology, normed linear spaces, probability theory, real variables, topological groups. May be taken more than once.

Prerequisite(s): Permission of chairperson.

MTH 463 INTRODUCTION TO OPERATIONS RESEARCH

Topics include linear programming and its applications, game theory, Markov chains or linear codes and their error-correcting capabilities.

Prerequisite(s): MTH 302.

MTH 465 LINEAR ALGEBRA

Vector spaces, linear transformations and matrices, determinants, inner product spaces, invariant direct-sum decomposition and the Jordan canonical form.

Prerequisite(s): MTH 302.

MTH 466 GRAPH THEORY AND COMBINATORICS

Graphs as algebraic structures; eulerian, hamiltonian, complete, connected and planar graphs. Applications include scheduling and routing problems. Discussion of algorithms for optimal or near-optimal solutions. Combinatorial topics could include generating functions, recurrence relations, Pólya's theorem and Ramsey Theory.

Prerequisite(s): MTH 302.

MTH 471 TOPOLOGY

Introduction to topological spaces and continuous functions including a study of separation and countability axioms and elementary properties of metric spaces, connected spaces, and compact spaces.

Prerequisite(s): MTH 302 or permission of instructor.

MTH 477 HONORS THESIS PROJECT

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approval of the University Honors Program.
MTH 478  HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and
completion of an independent, original Honors Thesis project under the
guidance of a faculty research advisor. Restricted to students in the
University Honors Program with permission of the program director and
departmental chairperson. Students pursuing an interdisciplinary thesis topic
may register for 3 semester hours each in two separate disciplines in
consultation with the department chairpersons.
Prerequisite(s): Approved 477 and approval of University Honors Program.

MTH 490  READINGS IN (NAMED AREA)
Individual study in specialized areas carried out under the supervision of a
staff member. May be taken more than once.
Prerequisite(s): Permission of chairperson.
School of Engineering
(MEE) Mechanical and Aerospace Engineering

Mechanical engineers apply principles of the physical sciences, mathematics, economics, and human relations to conceive, design, and analyze a wide variety of products and systems. They may also direct manufacturing, distribution, and operation. Mechanical engineers can be employed in governmental organizations and a variety of industries including automotive, aerospace, biomedical, textiles, raw materials production, and energy. Job functions range from research, development, design, analysis, production, sales, consulting, and management. Many find that a mechanical engineering education is an excellent preparation for careers in law and medicine among other professions.

The curriculum in mechanical engineering serves as a broad-based education for positions in these diverse fields or for graduate study leading to advanced degrees. The first part of the mechanical engineering curriculum provides a firm foundation in mathematics, physics, chemistry, computer-aided drawing and conceptual design, and the humanities. The second part of the curriculum provides the engineering science fundamentals and laboratory experiences necessary for testing, design, as well as continued learning in the humanities, arts, and social sciences. The final part of the curriculum emphasizes synthesis of knowledge through major design projects sponsored by regional industries. The curriculum includes sufficient elective courses to permit a concentration in aerospace or minors in several other areas, including digital systems and controls and engineering management. As well, open electives can be used to take courses in any field including language, business, and the sciences.

The overall educational experience, guided by the University of Dayton Catholic and Mariavist heritage, seeks to have graduates who within several years after graduation are expected to:

1. be successfully engaging in professional work experiences which may include responsibilities in design, testing, manufacturing, and/or research and development;
2. demonstrate professional and personal growth through continuing education or through programmed training within their organizations, and most importantly, on their own;
3. serve as effective team members in their professional communities, provide solid leadership in their teams for their assigned tasks, and take initiative;
4. demonstrate commitment to a career and life where ethics, integrity, and service are paramount;
5. increasingly serve as mentors to their peers.

Specifically, this means that graduates will: have the ability to apply knowledge of mathematics, science, and engineering fundamentals; will have the ability to use techniques, skills and modern engineering tools necessary for engineering practice; will have the ability to design and conduct experiments, and analyze and interpret data; will have the ability to design components, systems and/or processes; will be able to independently identify, formulate and solve engineering problems; will have the ability to function effectively on engineering teams; will be able to communicate their ideas/solutions effectively to both technical and non-technical people; will have the broad education necessary to understand the social, environmental and economic impact of engineering solutions in a global context; will exhibit a commitment to ethical behavior, leadership and service within their profession; will have knowledge of and be able to think critically about contemporary issues; and will continue their personal and professional development by engaging in lifelong learning.

Faculty

Kevin P. Hallinan, Chairperson
Professors Emeriti: Chuang, Eastep, Minardi, Wurst
Professors: Ballal, Brockman, Doepker, Doyle, Eimermacher, Ervin, Hallinan, Jain, Kashtani, Sargent, Schauer
Associate Professors: Brar, Endres, Kissock, Murray, Petrykowski, Sidhu, Zabarnick
Assistant Professors: Altman, Chuck, Pinnell, Turner
Adjunct Professor: Ostdiek, Shine
Adjunct Associate Professors: Burnley, Camberos, Sanders, Fry
Adjunct Assistant Professors: Doty, Price
### Majors/Minors

**Major/Minor Name**  
Bachelor of Mechanical Engineering (MEE)

#### First-Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123</td>
<td>GENERAL CHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>CHM 123L</td>
<td>GENERAL CHEMISTRY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
<td>0 - 3</td>
</tr>
<tr>
<td>EGR 101</td>
<td>INTRODUCTION TO ENGINEERING DESIGN</td>
<td>2 - 3</td>
</tr>
<tr>
<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101)</td>
<td>3 - 6</td>
</tr>
<tr>
<td></td>
<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH SCHOLARS' SEMINAR (ENG 198)</td>
<td></td>
</tr>
<tr>
<td>HST 103 or 198</td>
<td>THE WEST AND THE WORLD (HST 103)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HISTORY SCHOLARS' SEMINAR (HST 198)</td>
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<tr>
<td>MEE 101</td>
<td>INTRODUCTION TO MECHANICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td>MEE 194L</td>
<td>COMPUTER GRAPHICS I</td>
<td>1</td>
</tr>
<tr>
<td>MTH 168</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
<td>4</td>
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<tr>
<td>MTH 169</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
<td>4</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
</tr>
<tr>
<td>PHY 206</td>
<td>GENERAL PHYSICS I-MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
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</tbody>
</table>

#### Sophomore-Year

##### First-Term

<table>
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<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111 or 112</td>
<td>INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
<td></td>
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<tr>
<td>CMM 113</td>
<td>INTERVIEWING</td>
<td>1</td>
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<tr>
<td>EGM 201</td>
<td>MECHANICS I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 207</td>
<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirement  
3

##### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>EGM 202</td>
<td>DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>EGM 303</td>
<td>MECHANICS II</td>
<td>3</td>
</tr>
<tr>
<td>MEE 227L</td>
<td>COMPUTER GRAPHICS II</td>
<td>1</td>
</tr>
<tr>
<td>MEE 301</td>
<td>THERMODYNAMICS I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
<td>3</td>
</tr>
<tr>
<td>PHY 208</td>
<td>GENERAL PHYSICS III - MECHANICS OF WAVES</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirement  
3

#### Junior-Year

##### First-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECE 323</td>
<td>BASIC ELECTRONIC CIRCUITS</td>
<td>4</td>
</tr>
<tr>
<td>MEE 308</td>
<td>FLUID MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 312-312L</td>
<td>ENGINEERING MATERIALS I (MEE 312)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATERIALS LABORATORY (MEE 312L)</td>
<td></td>
</tr>
<tr>
<td>MEE 314</td>
<td>COMPUTATIONAL METHODS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 321</td>
<td>THEORY OF MACHINES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 415</td>
<td>PROFESSIONAL DEVELOPMENT I</td>
<td>0</td>
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</tbody>
</table>

##### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 341</td>
<td>ENGINEERING EXPERIMENTATION</td>
<td>3</td>
</tr>
<tr>
<td>MEE 344</td>
<td>MANUFACTURING PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 410</td>
<td>HEAT TRANSFER</td>
<td>3</td>
</tr>
<tr>
<td>MEE 415</td>
<td>PROFESSIONAL DEVELOPMENT I</td>
<td>0</td>
</tr>
</tbody>
</table>

Open elective¹  
3

General Education Requirement  
3

#### Senior-Year
First-Term 16-17

MEE 415  PROFESSIONAL DEVELOPMENT I
MEE 425 or 427  AEROSPACE DESIGN (MEE 425)
                 MECHANICAL DESIGN I (MEE 427)
MEE 431L  MULTIDISCIPLINARY ENGINEERING
           DESIGN LABORATORY I
MEE 439 or 440  DYNAMIC SYSTEMS AND CONTROLS
                  (MEE 439)
                  FLIGHT VEHICLE PERFORMANCE
                  (MEE 440)

MEE elective¹  3
Ethics elective (PHL 316 or REL 369)  3
Open elective¹  3

Second-Term 17

MEE 416  PROFESSIONAL DEVELOPMENT II
MEE 432L  MULTIDISCIPLINARY ENGINEERING
           DESIGN LAB II
MEE 460  ENGINEERING ANALYSIS

General Education Requirement  3
General Education Requirement  3
MEE electives¹  3

¹Aerospace Concentration students take MEE 225 in place of an open elective, MEE 401 and MEE 413 in place of MEE electives.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 101</td>
<td>INTRODUCTION TO MECHANICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Weekly meeting of first-semester, first-year mechanical engineering students. Orientation to engineering problem solving and team building through hands on applications.</td>
<td></td>
</tr>
<tr>
<td>MEE 104L</td>
<td>COMPUTER GRAPHICS I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of engineering graphics and the part that graphical communication plays in engineering. Introduction to computer aided design (CAD).</td>
<td></td>
</tr>
<tr>
<td>MEE 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td></td>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
</tr>
<tr>
<td>MEE 225</td>
<td>INTRODUCTION TO FLIGHT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introductory course designed to provide students with a basic understanding of the multitude of disciplines that comprise the aeronautical engineering profession. A background and brief history of flight are covered. Foundational knowledge of aerodynamics, propulsion, aerostructures, aircraft performance and aerospace vehicle design. Laboratory included. Prerequisite(s): PHY 206</td>
<td></td>
</tr>
<tr>
<td>MEE 227L</td>
<td>COMPUTER GRAPHICS II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced engineering graphics and graphical communication in engineering; introduction to project design. Prerequisite(s): MEE 104L.</td>
<td></td>
</tr>
<tr>
<td>MEE 298</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td></td>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
</tr>
</tbody>
</table>
MEE 301 THERMODYNAMICS I
Corequisite(s): MTH 218.

MEE 308 FLUID MECHANICS
An introductory course in fluid mechanics. Fundamental concepts including continuity, momentum, and energy relations. Control volume analysis and differential formulations. Internal and external flows in laminar and turbulent regimes. One-dimensional compressible flows.
Prerequisite(s): MEE 301; MTH 219.

MEE 312 ENGINEERING MATERIALS I
Atomic structure, bonding, and arrangement in solids. Mechanical and physical properties of solids, phase equilibria, and process of solids. Strengthening methods in solids, principles of material selection, and characteristics of non-ferrous alloys, polymers, ceramic composites, and construction materials.
Corequisite(s): EGM 303; MEE 312L.

MEE 312L MATERIALS LABORATORY
Conducting mechanical and physical tests on solids including, but not limited to tension, compression, bending, hardness, and impact. Metallurgical examination of surfaces. Test standards, data reduction, analysis, interpretation, and written and oral communication of test results.
Corequisite(s): EGM 303; MEE 312.

MEE 314 COMPUTATIONAL METHODS
Detailed introduction to solving engineering problems through programming in the Matlab technical computing software package. Fundamentals of algorithms, including iterative processes, arrays and logic operations. Graphing of 2D and 3D functions. Graphical user interfaces. Focus on engineering applications that utilize the mathematical techniques of linear algebra, statistics and numerical methods.
Corequisite(s): MTH 219.

MEE 319 MECHANICAL VIBRATIONS
Undamped and damped, free and forced vibrations of single degree of freedom translational and rotational systems; vibration isolation and absorption; multi-degree of freedom systems, continuous systems, transient vibration, approximate and numerical solutions.
Prerequisite(s): EGM 202; MTH 219.
Corequisite(s): EGM 303.

MEE 321 THEORY OF MACHINES
Applications and design of mechanisms; use of graphical and analytical techniques for the kinematic and dynamic analysis and synthesis of machines. Analysis and design of cams, gears and gear trains. Balancing of rotating masses.
Corequisite(s): EGM 202.

MEE 341 ENGINEERING EXPERIMENTATION
Basic sensors and instrumentation, design of experiments, data acquisition and processing, and uncertainty and statistical analysis of data. Measurement of strain, motion, pressure, temperature, flow and sound. Measurement applications to engineering phenomena or systems. Course will utilize a mix of lecture, laboratory experiments, and demonstrations. Also a term project to provide design of experiment experience.
Corequisite(s): EGM 303; MEE 308.

MEE 344 MANUFACTURING PROCESSES
Casting processes including casting defects and design of castings; metal working processes such as extrusion, forging, rolling and wire drawing; sheet metal forming; welding processes; powder metallurgy and design principles for P/M parts, metal removal processes; formning and shaping plastics and composite materials; rapid prototyping. Design principles for manufacturability. Includes laboratory.
Prerequisite(s): MEE 312.
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

MEE 401 AERODYNAMICS
Fundamentals of steady, incompressible, and inviscid aerodynamic flows over wings. Emphasis on force and moment determination for airfoil and finite wings. 
Prerequisite(s): MEE 308.

MEE 409 AEROSPACE STRUCTURES
Structural properties of wing and fuselage sections. Nonsymmetrical bending of skin-stringer wing sections. Shear stresses in thin-walled and skin-stringer multiple-celled sections. Deflection by energy methods. Introduction to finite element stiffness method. 
Prerequisite(s): EGM 303.

MEE 410 HEAT TRANSFER
Fundamentals of conduction, convection, and thermal radiation energy transfer. Conduction of heat in steady and unsteady state. Principles of boundary layer theory applicable to free and forced convection heat transfer for internal and external flows. Radiation analysis with and without convection and conduction. 
Prerequisite(s): MEE 308.

MEE 413 PROPULSION
Principles of propulsive devices, aerothrmodynamics, diffuser and nozzle flow, energy transfer in turbo-machinery; turbojet, turbo-fan, prop-fan engines; turbo-prop and turboshaft engines. RAM and SCRAM jet analysis and a brief introduction to related materials and air frame-propulsion interaction. 
Prerequisite(s): MEE 308.

MEE 415 PROFESSIONAL DEVELOPMENT I
Presentations on contemporary mechanical engineering subjects by students, faculty, and engineers in active practice; student involvement in professional and service activities. Registration required of all junior and senior students not registered in MEE 416.

MEE 416 PROFESSIONAL DEVELOPMENT II
Presentations on contemporary mechanical engineering subjects by students, faculty, and engineers in active practice; student involvement in professional and service activities. Registration required of all students in their last term prior to graduation.

MEE 417 INTERNAL COMBUSTION ENGINES
Combustion and energy release processes. Applications to spark and compression ignition, thermal jet, rocket, and gas turbine engines. Emphasis on air pollution problems caused by internal combustion engines. Idealized and actual cycles studied in preparation for laboratory testing of I. C. engines. 
Prerequisite(s): MEE 301 or permission of instructor.

MEE 418 GAS DYNAMICS
Application of the basic thermodynamic and fluid motion laws to the solution of engineering problems in fluid mechanics. Use of differential and integral equations for internal and external flow of compressible fluids with friction and heat transfer. Isentropic flow; adiabatic flow; normal and oblique shocks; Prandtl-Meyer flow; Fanno and Rayleigh line flow. 
Prerequisite(s): MEE 308.

MEE 420 HEATING AND AIR CONDITIONING
Theory and methods of maintaining comfortable industrial and residential environments. Psychrometrics; effects of solar radiation; heat transmission through solid boundaries and transparent materials; heating and cooling
load calculations; sizing of equipment; energy conservation and management concepts.

**Prerequisite(s):** MEE 410 or permission of instructor.

**MEE 425 AEROSPACE DESIGN**
Design project in which teams of students synthesize an engineering solution to a complex aerospace related problem through the integration of mechanical and aerospace engineering principles.

**Prerequisite(s):** (MEE 225, 401, 409) or permission of instructor.

**Corequisite(s):** MEE 431L.

**MEE 427 MECHANICAL DESIGN I**
Stress and deflection analysis of machine components; theories of failure; fatigue failure of metals. Design and analysis of mechanical components such as gears, shafts, bearings and springs.

**Prerequisite(s):** EGM 303; MEE 321.

**Corequisite(s):** MEE 431L.

**MEE 428 MECHANICAL DESIGN II**
Advanced topics in stress and deflection analysis; analysis and design of mechanical elements such as gears, journal and ball bearings, belts, brakes, and clutches; principles of fracture mechanics; failure analysis; machinery construction principles. Contemporary design methods and issues associated with the product development cycle.

**Prerequisite(s):** MEE 427.

**MEE 431L MULTIDISCIPLINARY ENGINEERING DESIGN LABORATORY I**
Multidisciplinary team design projects applying general mechanical engineering knowledge. Product development using product realization process (PRP) including: proposal development; design specifications, conceptualization and decision analysis. Projects normally result in a final design and prototyping in a follow-on course. Projects supplemented with an introduction to mechanical components and Computer Aided Engineering (CAE) methods.

**Corequisite(s):** MEE 425 or 427.

**MEE 432L MULTIDISCIPLINARY ENGINEERING DESIGN LAB II**
One hour lecture and five hours of lab per week. Focus of the lecture is on engineering project management, including communication, collaboration, project tracking methods, cost estimating, overhead, direct labor, time value of money, depreciation and return on community based sponsors. Detailed evaluation of the Product Realization Process focusing on conceptual design, embodiment design, final design and prototyping. Analysis of the design criteria for safety, ergonomics, environment, cost and sociological impact. Periodic oral and status reports. Culminates in a comprehensive written report and oral presentation.

**Prerequisite(s):** MEE 425 or 427.

**MEE 434 MECHATRONICS**
Emphasis on the integration of sensors, micro-controllers, electromechanical actuators, and control theory in a 'smart' system for a semester long design project. Topics include: sensor signal processing, electromechanical actuator fundamentals, interfacing of sensors and actuators to micro-controllers, digital logic, and programming of micro-controllers, programmable logic controllers and programmable logic devices. Equal mix of lecture and laboratory.

**Prerequisite(s):** ECE 323.

**MEE 436 VEHICLE PERFORMANCE ANALYSIS**

**Prerequisite(s):** MEE 308 or permission of instructor.

**MEE 438 ROBOTICS AND FLEXIBLE MANUFACTURING**
Overview of industrial robots; physical configuration, operation, and programming of robots; actuators, drive mechanisms, sensors, vision systems, controls, and control methods for robots; economic considerations; and automated factory concept.

**Prerequisite(s):** MEE 321.

**MEE 439 DYNAMIC SYSTEMS AND CONTROLS**
Dynamic systems modeling with special emphasis on mechanical systems (one and two degrees of freedom). Covers both transfer function and state space modeling techniques. Analogues drawn between mechanical, electrical, fluid, and thermal physical domains. System nonlinearities and model linearization methods are discussed. Analytical solutions of linear ordinary differential equations using Laplace transformation and state space theory. Feedback control theory, including root locus and frequency response techniques.

**Prerequisite(s):** EGM 202; MTH 219.

**MEE 440  FLIGHT VEHICLE PERFORMANCE**

This course is intended to introduce the student to the flight mechanics of aerospace vehicles. Some familiarity with aircraft performance, static stability and control is assumed, but not required. We will use modern analysis methods to develop the topical details including: 1) a study of aerodynamics involved in-flight vehicle motion to obtain an understanding of influence coefficients; 2) use of linear algebra to develop a rational approach to modeling aircraft dynamics; 3) an introduction to modern control theory methodology; and 4) problems and examples that illustrate the use of desktop computational tools currently available.

**Prerequisite(s):** (EGM 202; MTH 219; MEE 401, 225) or permission of instructor.

**MEE 460  ENGINEERING ANALYSIS**

Case study approach to engineering problem solving. Emphasis on breaking down problems to tractable parts, modeling physical systems and selection of solution techniques. Problems related to thermal, fluid, structural, and dynamic systems. Problems typically involve solution of ordinary and partial differential equations, Fourier analysis of periodic behavior, simulation, optimization and/or statistical analysis. Analytical and numerical solution techniques, with an emphasis on selecting the most appropriate technique and understanding the limitations of the analysis.

**Prerequisite(s):** ECE 323; MEE 312, 410.

**MEE 471  DESIGN OF THERMAL SYSTEMS**

This course integrates thermodynamics, heat transfer, engineering economics, and simulation and optimization techniques in a design framework. Topics include design methodology, energy analysis, heat exchanger networks, thermal-system simulation and optimization techniques.

**MEE 472  DESIGN FOR ENVIRONMENT**

Emphasis on design for environment over the life cycle of a product or process, including consideration of the mining, processing, manufacturing, use, and post-life stages. Course provides knowledge and experience in invention for the purpose of clean design, life cycle assessment strategies to estimate the environmental impact of products and processes, and cleaner manufacturing practices. Course includes a major design project.

**MEE 473  RENEWABLE ENERGY SYSTEMS**

Introduction to the impact of energy on the economy and environment. Engineering models of solar thermal and photovoltaic systems. Introduction to wind power. Fuel cells and renewable sources of hydrogen.

**MEE 498  RESEARCH AND INNOVATION LABORATORY**

Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

**MEE 499  SPECIAL PROBLEMS IN MECHANICAL AND AEROSPACE ENGINEERING**

Particular assignments to be arranged and approved by department chairperson.
College of Arts and Sciences

(MIL) Military Science, ROTC

The Department of Military Science offers the Reserve Officers Training Corps (ROTC) program on the campus, providing instruction in general military subjects applicable to all branches of the Army. The purpose of the Reserve Officers Training Corps is to develop selected college-educated men and women for positions of responsibility as officers in the active Army, the Army Reserve, and the Army National Guard.

The military science program is designed to develop a high degree of personal honor, self-reliance, and leadership and to provide the means of becoming better informed on matters of national defense. The program provides men and women who are working toward a baccalaureate degree the opportunity to become officers in the United States Army.

The four-year program is divided into a basic course (normally first and second years) and an advanced course (normally third and fourth years), and it is offered to all students for academic credit.

The basic course emphasizes practical leadership techniques and management concepts that apply equally in both military organizations and private industry. While in this phase of the program, students, other than contracted ROTC scholarship students, have no military obligation and are simply taking ROTC courses, for credit. Students who receive credit for the basic course and demonstrate a potential for becoming effective officers may continue to pursue a commission by enrolling in the advanced course.

The advanced course is designed to prepare students to be Army lieutenants by including practical work in tactics, training, leadership techniques, and the exercise of command. Advanced course students are paid $350 (juniors) and $400 (seniors) a month during the school year. During the summer between the junior and senior years, cadets 32 day Leadership Assessment Development Course (LDAC), which allows them to apply the leadership and technical training learned in the classroom. While at camp, students are paid half a second lieutenant's monthly salary or about $1100.

In addition to ROTC instruction, a student must attain an equal level of professional military education. Army officers, like other professionals, cannot be satisfied with a collection of knowledge found only in their academic field. In order to be prepared to become officers, students are required to complete courses in military history, written communication skills, oral communication skills, and computer literacy.

The minor in military science provides students with the opportunity to study the theory and practice of the military profession. The minor consists of 12 semester hours of upper-level courses. Students must complete MIL 301, 302, 401, and 402. Students desiring to minor in military science should notify their respective deans and the Department of Military Science.

The ROTC program is also available to students with three or two years remaining on campus, including graduate students. Special programs, such as ROTC Summer Leadership Training Course (LTC), have been established to allow second-semester sophomores and juniors or seniors who will be going on to graduate school to participate in the military science program.

There is also a special program whereby veterans and JROTC students can receive advanced placement credit in Army ROTC. Veterans and students with high school JROTC training, with the approval of the chairperson of the Department of Military Science, may receive placement credit for part or all of the basic course. Each case will be judged individually so that the best interests of both the student and the military may be served.

Army ROTC scholarships are available to students. These scholarships cover four, three, and two-year periods and provide for up to $17,000 for tuition and fees, $600 a year for books, and a subsistence allowance of $250 a month for up to ten months and increasing by $50 increments for each school year. Scholarships, which are highly competitive, are awarded to those who demonstrate outstanding academic and leadership ability.

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001773&c=-1&p=1000001979 7/10/2012
At Sinclair Community College, MIL 121, 122, 123 complete requirements for MIL 101 and 102 at UD; MIL 221, 222, 223 complete requirements for MIL 201 and 202.

**Faculty**

Lt. Col. Versalle F. Washington, Ph.D., U.S. Army, Chairperson  
Professor: Washington  
Assistant Professors: Forrest, Loeb, Womack  
Instructors: Foreman, Bannerman

**Majors/Minors**

Major/Minor Name  
Minor in Military Science, ROTC (MIL)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL 101</td>
<td>LEADERSHIP I</td>
<td>1-3</td>
</tr>
<tr>
<td>MIL 102</td>
<td>LEADERSHIP II</td>
<td>1-3</td>
</tr>
<tr>
<td>MIL 201</td>
<td>MAP READING AND SMALL UNIT TACTICS</td>
<td>2-3</td>
</tr>
<tr>
<td>MIL 202</td>
<td>MILITARY LEADERSHIP</td>
<td>2-3</td>
</tr>
<tr>
<td>MIL 301</td>
<td>LEADING SMALL ORGANIZATIONS I</td>
<td>3</td>
</tr>
<tr>
<td>MIL 302</td>
<td>LEADING SMALL ORGANIZATIONS II</td>
<td>3</td>
</tr>
<tr>
<td>MIL 401</td>
<td>LEADERSHIP MANAGEMENT AND STAFF</td>
<td>3</td>
</tr>
<tr>
<td>MIL 402</td>
<td>APPLIED LEADERSHIP AND MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL 101</td>
<td>LEADERSHIP I</td>
<td>1-3</td>
</tr>
</tbody>
</table>

ROTC programs and opportunities; rappelling, leadership, communications and management skills, and pistol marksmanship. Optional field trips, field exercises, physical training, leadership laboratory and social events.

| MIL 102 | LEADERSHIP II                            | 1-3       |

Rifle marksmanship, fundamentals and principles of leadership, management techniques for individual, group behavior and leadership dimensions. Optional physical training, leadership laboratory, and social events.

| MIL 201 | MAP READING AND SMALL UNIT TACTICS         | 2-3       |

Study of basic map reading skills, small unit tactics, movement techniques, weapons marksmanship orientation, and survival skills. Participation in leadership laboratory and two field training exercises. Optional physical training and social events.

| MIL 202 | MILITARY LEADERSHIP                      | 2-3       |

Interactive study of the fundamentals of military leadership, ethical decision-making, effective counseling techniques, and conflict resolution. Study of the role and branches of the US Army and the role of the commissioned, warrant, and noncommissioned officer. Optional participation in leadership laboratories, field training exercises, physical fitness training, and social events.

| MIL 301 | LEADING SMALL ORGANIZATIONS I             | 3         |

Study of the methodology, qualities, and the development of leaders through a series of practical opportunities to lead small groups, receive personal assessments, encouragement, and lead again in situations of increasing complexity. Physical training, leadership laboratory, historical field trip, social events, and field training exercises are mandatory.

| MIL 302 | LEADING SMALL ORGANIZATIONS II            | 3         |

Study of emplacement of communications equipment and weapons system. Application of small unit tactics, land navigation-terrain association, operations orders and roles of various branches of the Army. Physical training, leadership laboratory, social events, and field training exercises are mandatory.

| MIL 401 | LEADERSHIP MANAGEMENT AND STAFF           | 3         |

Study of military staff functions; how to conduct meetings, briefing, and training; how to conduct various types of counseling; and effective and ineffective leadership techniques. Physical training, leadership laboratory, historical field trip, social events, and field training exercises are mandatory.

| MIL 402 | APPLIED LEADERSHIP AND MANAGEMENT         | 3         |

Leadership and management studies in professionalism, ethics, and military justice. Various types of military correspondence and the responsibilities of
an officer. Physical training, leadership laboratory, field training exercises, and social events are mandatory.

MIL 411 LIMITED WAR/LOW INTENSITY CONFLICT 2-3
This course will identify and discuss the roles and mission of the branches found within the U.S. Army as they relate to Limited War and Low Intensity Conflicts. Historical examples of leadership in Limited War/Low Intensity Conflicts are identified and discussed. Incorporates the background and experience of resident instructors and presentations by visiting service representatives.

MIL 412 U.S. MILITARY TODAY 2-3
This course will identify and discuss the roles, missions, organizational structure and equipment, tactical and strategic employment, and future trends of the Armed Services. Incorporates the background and experience of resident instructors and presentations by visiting service representatives.

MIL 477 HONORS THESIS PROJECT 3
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approval of the University Honors Program.

MIL 478 HONORS THESIS PROJECT 3
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.
Prerequisite(s): Approved 477 and approval of University Honors Program.
College of Arts and Sciences
(MUS) Music (Collapse Description)
Music is a unique form of expression and communication. A course of study provides for an aesthetic appreciation and an opportunity to translate musical concepts into a valuable and practical skill. The Department of Music of the University of Dayton provides academic coursework to foster artistic understanding and creative thinking, practical instruction to develop musical skills, and substantial laboratory and performance experience.

The Department of Music is a member of the National Association of Schools of Music, which accredits its degree programs and curricula. In addition, the music education degree program is approved by the State of Ohio and the music therapy degree program by the American Music Therapy Association.

The Department of Music has numerous performing ensembles open to all students: the University Chorale, Choral Union, Opera Workshop, Ebony Heritage Singers, and Celebration Vocal Ensemble; University Orchestra, Symphonic Wind Ensemble, Concert Band, "Pride of Dayton" Marching Band, Pep Band, Jazz ensembles; early music ensembles; and instrumental chamber music ensembles.

The Department of Music offers five degree programs:

Bachelor of Arts with a major in Music (MUS)
Bachelor of Music with a major in Music Composition (MUC)
Bachelor of Music with a major in Performance (MUP)
Bachelor of Music with a major in Music Therapy (MUT)
Bachelor of Music with a major in Music Education (MUE)

All prospective music students must be admitted to the University of Dayton by the Office of Admission. In addition, all prospective students must (1) furnish the Department of Music with letters of recommendation from their high school music teachers and/or performance teachers and (2) successfully complete the performance audition, either in person or via tape recording. Specific information regarding audition requirements and dates is available from the Department office.

A minor in music consists of twenty-two semester hours.

Transfer students pursuing a major in MUC, MUP, or MUT must complete at least 24 of the required semester hours in the Department of Music while in residency at the University of Dayton. Transfer students pursuing a major in MUE must complete at least 20 of the required semester hours in the Department of Music while in residency at the University of Dayton. Transfer students pursuing a music minor must complete at least 12 of the required semester hours in the Department of Music while in residency.

Faculty
Donna M. Cox, Chairperson
Professors Emeriti: Sandness
Professors: Benedum, Chenoweth, Cox, Hartley, Magnuson, Snyder, Street
Associate Professors: Morris, Reynolds
Assistant Professors: Brill, Gardstrom, Jones
Visiting Assistant Professors: Caldwell, Hoffman, Schoyen, Sink
Artists-in-Residence: Anderson, Benjamin, Farris, McGutcheon, Wright
Lecturer: Hiller

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Arts with a major in Music (MUS)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
</tbody>
</table>
### Conducting
- **MUS 240**

### Performance studies, including functional keyboard skills
- **MUS 296, 297, 298, 299, (399 or 499)**

### Ensemble
- **MUS (390 or 491 or 492 or 493)**

### Recital attendance (seven semesters)
- **MUS 200**

### Professional Development Workshop (seven semesters)
- **MUS 202**

### Liberal Studies Curriculum

#### Humanities and Fine Arts
- Philosophy and Religious Studies including:
  - **PHL 325**
- History
  - **6**
- Literature: English or Foreign Language
  - **3**
- Creative and Performing Arts (including MUS or other arts)
  - **3**
- Foreign Language and/or Additional Arts and/or Humanities
  - **3-9**
- Social Sciences
  - **12**
- Mathematics (excludes MTH 102, 204, 205)
  - **3**
- Natural Sciences
  - **11**

### Communication Competencies
- **0-9**

### Introduction to the University: ASI 150
- **0-1**

### General Education courses/academic electives to total at least
- **124**

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**Bachelor of Music with a major in Music Composition (MUC)**

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td><strong>16</strong></td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Composition</td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>MUS 121, 122, 221, 222, 321, 322, 421, 422</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Score reading</td>
<td><strong>2</strong></td>
</tr>
<tr>
<td>MUS 314</td>
<td></td>
</tr>
<tr>
<td>Orchestration or arranging</td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>MUS (316 or 318), 416</td>
<td></td>
</tr>
<tr>
<td>Conducting</td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>MUS 240, (345 or 346)</td>
<td></td>
</tr>
</tbody>
</table>
| Performance Studies
| MUS 296, 297, 298, 299, (399 or 499)       | **12**    |
| Ensemble                                   | **8**     |
| MUS (491 or 492 or 493)                    |           |
| Recital attendance (seven semesters)       |           |
| MUS 200                                    |           |
| Professional Development Workshop (seven semesters)
| MUS 202                                    |           |
| Theory and/or composition electives        | **10**    |
| MUS electives                              | **10**    |

### Communication Competencies
- **0-9**

### Philosophy and Religious Studies (includes PHL 325)
- **12**
Natural Sciences 6
Mathematics (excludes MTH 102, 204, 205) 3
Social and Behavioral Sciences 6
Humanities (includes HST 103 or 198) 6
Other non-music electives 6
Introduction to the University: ASI 150 0-1

**General Education courses/academic electives to total at least** 126-136

1 Each composition major must present one and a half recitals of original work by the senior year.
2 Functional Keyboard Skills or equivalent is required.

Bachelor of Music with a major in Music Education (MUE)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>81-82</td>
</tr>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Functional keyboard skills</td>
<td>4</td>
</tr>
<tr>
<td>MUS 296, 297, 298, 299</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 318</td>
<td></td>
</tr>
<tr>
<td>Introduction to music education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 231</td>
<td></td>
</tr>
<tr>
<td>Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year (seven semesters)</td>
<td>14</td>
</tr>
<tr>
<td>MUS 399</td>
<td></td>
</tr>
<tr>
<td>Recital attendance (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td></td>
</tr>
<tr>
<td>Ensemble</td>
<td>7</td>
</tr>
<tr>
<td>General (five semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS (491 or 492 or 493)</td>
<td></td>
</tr>
<tr>
<td>General (two semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 399</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td></td>
</tr>
</tbody>
</table>

**Additional requirements for band specialization**

28.5

<table>
<thead>
<tr>
<th>Music Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 195, 236, 331, 332, 335, 336, 337, 338, 339, 340, 430, 431</td>
<td></td>
</tr>
</tbody>
</table>

**Conducting**

MUS 240, 346

**Additional requirements for orchestra specialization**

28.5

<table>
<thead>
<tr>
<th>Music Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 195, 236, 331, 332, 335, 336, 337, 338, 339, 340</td>
<td></td>
</tr>
</tbody>
</table>

**Conducting**

MUS 240, 346

**String minor (two semesters)**

MUS 399

**Additional requirements for choral specialization**

28

<table>
<thead>
<tr>
<th>Music Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 235, 237, 238, 331, 332, 335, 338, 339, 340</td>
<td></td>
</tr>
</tbody>
</table>
Conducting  
MUS 240, 345  
Guitar  
MUS 195, 295  
Diction and literature  
MUS 408  
Piano or voice minor (two semesters)  
MUS 399  

Additional requirements for classroom specialization

Music Education  
MUS 235, 237, 238, 331, 332, 335, 336, 339, 340  
Conducting  
MUS 240  
Guitar  
MUS 195, 295  
Improvisation  
MUS 381  
Piano or voice minor (three semesters)  
MUS 399

Teacher Education

EDT 110, 110L, 207, 207L, 305, 459, 479

Communication Competencies  
0-9  
Philosophy and Religious Studies including:  
PHL 325  
Natural Sciences  
6  
Mathematics (excludes MTH 102, 204, 205)  
3  
Social and Behavioral Sciences  
3  
History  
3  
HST (103 or 198)  
Introduction to the University: ASI 150  
0-1  
General Education courses/academic electives to total at least  
131.5-141.5

1 Students in the music education program are required to maintain a 2.5 cumulative grade point average, and a 2.5 cumulative average in teacher education and music courses.  
2 Students will select one of four specialty areas (band, choral, classroom, or orchestra). Upon completion of the degree, candidates will receive a provisional multi-age license from the State of Ohio to teach classroom, instrumental, and vocal music from pre-kindergarten through senior high school.  
3 Two semesters of this course must be completed for a total of 2 semester hours.  
4 Two semesters of MUS 338 must be completed for a total of 1.5 semester hours.  
5 One semester of MUS 338 must be completed for a total of 1 semester hour.

Bachelor of Music with a major in Music Performance (MUP)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conducting and Arranging</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUS 240, 318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Studies</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Major area of specialization</td>
<td>24-32</td>
<td></td>
</tr>
<tr>
<td>Minor area of specialization</td>
<td>4-12</td>
<td></td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001777&c=-1&p=-1  
7/10/2012
Ensemble 8
  MUS (491 or 492 or 493)
  Recital attendance (seven semesters)
    MUS 200
Professional Development Workshop (seven semesters)
    MUS 202
MUS electives 14

Communication Competencies 0-9
Philosophy and Religious Studies including:
  PHL 325
Natural Sciences 6
Mathematics (excludes MTH 102, 204, 205) 3
Social and Behavioral Sciences 6
Humanities (includes HST 103 or 198) 6
Other non-music electives 6
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 126-136

1 Performance study in major area must lead to a half junior solo recital and a full senior solo recital.
2 Must include MUS 296-299 or MUS 399.
3 Voice majors must take MUS 235 and MUS 408; piano majors must include MUS 405 and 435; instrumental majors must take a pedagogy course in their area of specialization.
4 Voice majors must include two semesters of foreign language study.

Bachelor of Music with a major in Music Therapy (MUT)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Conducting and Arranging</td>
<td>4</td>
</tr>
<tr>
<td>MUS 240, 318</td>
<td></td>
</tr>
<tr>
<td>Performance studies on the student’s principal instrument leading to a minimum of a half-recital during the junior or senior year. MUS 399</td>
<td>10</td>
</tr>
<tr>
<td>Vocal and instrumental methods, including accompanying instruments of piano and guitar MUS 195, 295, 296, 297, 298, 299, 338</td>
<td>8</td>
</tr>
<tr>
<td>Select one semester hour from: MUS 237, 238, 293</td>
<td></td>
</tr>
<tr>
<td>Music therapy, including core courses and practica</td>
<td>26</td>
</tr>
<tr>
<td>MUS 280, 282, 286, 286, 287, 288, 289, 381, 382, 385, 386, 387, 388, 485, 489</td>
<td></td>
</tr>
<tr>
<td>Music and dance electives</td>
<td>5</td>
</tr>
<tr>
<td>Ensemble</td>
<td>6</td>
</tr>
<tr>
<td>Recital attendance (seven semesters) MUS 200</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters) MUS 202</td>
<td></td>
</tr>
<tr>
<td>Music therapy internship</td>
<td>2</td>
</tr>
<tr>
<td>MUS 489</td>
<td>1</td>
</tr>
<tr>
<td>Psychology</td>
<td>12</td>
</tr>
<tr>
<td>PSY 101, 351, 355, 363</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>
Sciences including:
  HSS 305 6

Communication Competencies 0-9
Philosophy and Religious Studies including:
  PHL 325 12
Mathematics (excludes MTH 102, 204, 205) 3
  Recommended
    MTH 207
Humanities (includes HST 103 or 198) 6
Elective 3
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 131-141

1This internship of 1,040 hours is taken after student completes all other course requirements. In order to be recommended for an internship, the student must earn a grade of C- or better in each music therapy course, have an overall grade point average of at least 2.00 and a grade point average of at least 2.50 in music, music therapy, and psychology coursework. Upon successful completion of the internship, the graduate is eligible to take a national certification examination to become a Music Therapist—Board Certified.

2One semester of MUS 338 must be completed for a total of 1 semester hour.

Certificate in Church Music (MCH)

<table>
<thead>
<tr>
<th>Church Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 110 1</td>
<td>2</td>
</tr>
<tr>
<td>MUS 350</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351</td>
<td>2</td>
</tr>
<tr>
<td>MUS 390</td>
<td>1</td>
</tr>
<tr>
<td>MUS 399</td>
<td>1-2</td>
</tr>
<tr>
<td>MUS 452</td>
<td>2</td>
</tr>
<tr>
<td>MUS 459</td>
<td>2</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>MUS 240</td>
<td>2</td>
</tr>
<tr>
<td>MUS 545</td>
<td>2</td>
</tr>
<tr>
<td>Religious Studies 2</td>
<td>3</td>
</tr>
<tr>
<td>REL 446</td>
<td>3</td>
</tr>
<tr>
<td>Choose total of 6 semester hours of study from the following Church Music Workshops:</td>
<td>6</td>
</tr>
<tr>
<td>MUS 318</td>
<td>2</td>
</tr>
<tr>
<td>MUS 461</td>
<td>1-8</td>
</tr>
<tr>
<td>MUS 505, 506</td>
<td>2</td>
</tr>
</tbody>
</table>

1May substitute additional credits in performance studies or church music workshops for MUS 110.
2Or two to three semester hours of a suitable religious studies course.

Minor in Music (MUS)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Select twenty-two semester hours 1</td>
<td>22</td>
</tr>
</tbody>
</table>

1Twelve semester hours must be at the 300- or 400-level.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 104</td>
<td>MUSIC LITERATURE FOR THE ELEMENTARY CLASSROOM</td>
<td>2</td>
</tr>
</tbody>
</table>

Study of music literature and its direct application to elementary classroom use.
MUS 110 Fundamentals of Music
For the student with no previous experience with theory of music. Notation of music, key and time signatures, fundamental harmonic progression, and introduction to the piano keyboard. Elementary ear training and dictation. Open to all University students.

MUS 111 Theory of Music I
Basic vocabulary and grammar of music: fundamentals (intervals, scales, modes, keys, triads), and counterpoint studies. Assignments are done with computer notation programs, and portions of the course use web-based texts.

MUS 112 Theory of Music II
Basic diatonic and chromatic harmonic vocabulary studies, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. **Prerequisite(s):** MUS 111 with a grade of C- or better (or permission).

MUS 113 Aural Skills I
The hearing of musical structure is developed through active listening to representative pieces from music literature. Emphasis on formal relations, musical development and historical styles. Introduction to solfege singing and music transcription.

MUS 114 Aural Skills II
Further developing the ability to hear musical structure through transcription of intervals, melody, rhythm and harmonic patterns and short musical compositions of music in representative stylistic categories. Use of solfege singing to represent students' internalization of melodic structure. **Prerequisite(s):** MUS 113 with a grade of C- or better (or permission).

MUS 115 Music in Theory and Practice
Music theory studies in an historical context, appropriate for non-music majors. Fundamentals of music vocabulary and music prior to 1600: origins of melody and counterpoint. Aural skills incorporated into daily classes. Open to all University students. **Prerequisite(s):** At least one year of instrument/voice studies which required note-reading ability. **Corequisite(s):** Current performance studies or active participation in a music ensemble which requires note-reading skills.

MUS 116 Music in Theory and Practice
Continuation of MUS 115: music between 1600-1900, harmony and analysis. Aural skills incorporated into daily classes. **Prerequisite(s):** MUS 115. **Corequisite(s):** Current performance studies or active participation in a music ensemble which requires note-reading skills.

MUS 121 Composition I
Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process. **Prerequisite(s):** MUS 111. **Corequisite(s):** MUS 111.

MUS 122 Composition I
Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process. **Prerequisite(s):** MUS 112. **Corequisite(s):** MUS 112, 121.

MUS 191 Voice Class
Basic principles of good singing; development of the voice; vocal literature. Open to all students, especially non-music majors.

MUS 195 Beginning Guitar Class I
Introduction to playing the guitar with emphasis on chord playing and accompaniment, improvisation, and application of the guitar to music teaching.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 196</td>
<td>GROUP PIANO I</td>
<td>For the student with no previous piano study. Rudiments of music reading, performance of simple folk and popular music, basic knowledge of scales, key signatures, and chords. Open to all University students. Fee.</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td>RECITAL ATTENDANCE</td>
<td>All music majors are required to attend professional and student concerts and recitals, to develop critical listening experience and knowledge of repertoire.</td>
<td></td>
</tr>
<tr>
<td>MUS 201</td>
<td>MUSIC IN CONCERT</td>
<td>A survey of music literature, styles, and important composers, through preparation for and attendance at selected concerts on the campus and in the community. Concert ticket fees will be required. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td>PROFESSIONAL DEVELOPMENT WORKSHOP</td>
<td>All Bachelor of Music majors are required to attend a weekly professional workshop in their degree area. Course format is didactic and/or experiential according to degree program needs. Course material includes a variety of professional, pedagogical, and technological topics. May be repeated.</td>
<td></td>
</tr>
<tr>
<td>MUS 203</td>
<td>SIGHTS AND SOUNDS OF MUSIC</td>
<td>An introduction to music and its literature, with emphasis on the way music has been shaped by its cultural, geographic, and historical contexts. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>MUS 205</td>
<td>MUSIC, INSTRUMENTS, AND TECHNOLOGY</td>
<td>A survey of music literature, styles, and important composers, and the way the development of instruments has influenced changes in musical style. The course will also consider the ways technology has altered our approach and access to music making, listening, and dissemination in the twentieth century. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>MUS 211</td>
<td>THEORY OF MUSIC III</td>
<td>Advanced diatonic and chromatic harmonic vocabulary studies and Schenkerian analysis, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts.</td>
<td>MUS 112 with grade of C- or better (or permission).</td>
</tr>
<tr>
<td>MUS 212</td>
<td>THEORY OF MUSIC IV</td>
<td>Music of the twentieth century, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts.</td>
<td>MUS 211 with a grade of C- or better (or permission).</td>
</tr>
<tr>
<td>MUS 213</td>
<td>AURAL SKILLS III</td>
<td>Explores more advanced musical hearing and transcription techniques through later harmonic, melodic and rhythmic styles. More advanced melodic, harmonic and rhythmic materials as well as the continuing use of solfege singing to represent students' internalization of melodic structure.</td>
<td>MUS 114 with grade of C- or better (or permission).</td>
</tr>
<tr>
<td>MUS 214</td>
<td>AURAL SKILLS IV</td>
<td>Late 19th, 20th and 21st century musical structures of harmony, melody, rhythm and compositional development/form explored through listening, transcription and performance.</td>
<td>MUS 213 with a grade of C- or better (or permission).</td>
</tr>
<tr>
<td>MUS 221</td>
<td>COMPOSITION II</td>
<td>Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications.</td>
<td>MUS 211.</td>
</tr>
<tr>
<td>MUS 222</td>
<td>COMPOSITION II</td>
<td></td>
<td>MUS 211.</td>
</tr>
</tbody>
</table>
Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. Corequisites: MUS 211-212.

**Prerequisite(s):** MUS 212, 221.

**Corequisite(s):** MUS 212, 221.

**MUS 223  INTRODUCTION TO MUSIC TECHNOLOGY  2**
Provides students with an introduction to the notation and recording of music with a computer. Students will learn to compile and print music, record digital instruments with MIDI, and record and mix music with portable digital audio workstations.

**Prerequisite(s):** MUS 111 and 112 or MUS 115 and 116 or permission of instructor.

**MUS 231  INTRODUCTION TO MUSIC EDUCATION  2**
An introduction to a wide variety of pedagogical and philosophical aspects of teaching the arts. Topics will include technology, national and state standards, history, special learners, reading in the content area, and professional organizations. Field experience is required.

**Prerequisite(s):** EDT 110.

**MUS 232  INTEGRATING THE ARTS  2**
MUSIC: Primarily for Teacher Education Majors. Development of knowledge, skills, values, and attitudes in music for integration into a classroom setting in which other classroom subjects are taught.

**Prerequisite(s):** EDT 110.

**MUS 235  VOICE PEDAGOGY  1**
Techniques for teaching singing.

**Prerequisite(s):** Voice majors or with permission.

**MUS 236  VOICE LABORATORY  1**
Introduction to the performance and pedagogical techniques for voice.

**Prerequisite(s):** Instrumental music majors or by permission of chairperson.

**MUS 237  BRASS INSTRUMENT LABORATORY  1**
Introduction to the performance and pedagogical techniques for the brass instrument family.

**MUS 238  WOODWIND INSTRUMENT LABORATORY  1**
Introduction to the performance and pedagogical techniques for the woodwind instrument family. Fee.

**MUS 240  FUNDAMENTALS OF CONDUCTING  2**
Introductory-level course discussing basic conducting techniques, musical styles, interpretation, score study and analysis, transposition, and literature. Dual emphasis of choral and instrumental techniques.

**MUS 280  MUSIC AND MOVEMENT FOR PERSONS WITH DISABILITIES  1**
Training in the use of music and movement for children with disabilities under the supervision of AIM (Adventures in Movement) for the Handicapped, Inc. Includes observations and practices in the field.

**MUS 282  FUNCTIONAL MUSIC THERAPY SKILLS  2**
Introduction to melodic and percussive nonsymphonic instruments and voice with particular emphasis on developing a variety of functional clinical skills in both active and receptive music therapy techniques for children and adults.

**MUS 285  INTRODUCTION TO MUSIC THERAPY I  2**
History and development of music therapy; survey of theoretical bases and current trends for the use of music in therapy; disability areas using music therapy. Orientation in the clinical field.

**Prerequisite(s):** PSY 101, 363.

**MUS 286  INTRODUCTION TO MUSIC THERAPY II  2**
Continuation of MUS 285; orientation to the profession of music therapy through lectures, readings, audiovisual materials, and field trips; emphasis on specific disability areas using music therapy.

**Prerequisite(s):** MUS 285.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 287</td>
<td>PRACTICUM IN MUSIC THERAPY I</td>
<td>1</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 288</td>
<td>PRACTICUM IN MUSIC THERAPY II</td>
<td>1</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 289</td>
<td>PRACTICUM IN MUSIC THERAPY III</td>
<td>1</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 293</td>
<td>ORGAN CLASS</td>
<td>1</td>
<td>Introduction to the organ, including basic performance techniques, registration, beginning literature, and hymn playing. Fee.</td>
</tr>
<tr>
<td>MUS 294</td>
<td>HARPSCHORD CLASS</td>
<td>1</td>
<td>Beginning class lessons in harpsichord performance, including basic technique, stylistic considerations, and simple maintenance and tuning of the instrument. Fee.</td>
</tr>
<tr>
<td>MUS 295</td>
<td>BEGINNING GUITAR CLASS II</td>
<td>1</td>
<td>Note reading in first position; advanced chord work, introduction to chord solo playing, and improvisation. Prerequisite(s): MUS 195 or equivalent.</td>
</tr>
<tr>
<td>MUS 296</td>
<td>FUNCTIONAL KEYBOARD SKILLS I</td>
<td>1</td>
<td>Class instruction in development of basic performance technique, sight reading, accompanying, transposing, playing by ear, improvising, and score reading. Fee.</td>
</tr>
<tr>
<td>MUS 297</td>
<td>FUNCTIONAL KEYBOARD SKILLS II</td>
<td>1</td>
<td>Further development of techniques introduced in MUS 296. Fee. Prerequisite(s): MUS 296.</td>
</tr>
<tr>
<td>MUS 298</td>
<td>FUNCTIONAL KEYBOARD SKILLS III</td>
<td>1</td>
<td>Continuation of MUS 297 with emphasis on improvisation and harmonization techniques. Fee.</td>
</tr>
<tr>
<td>MUS 299</td>
<td>FUNCTIONAL KEYBOARD SKILLS IV</td>
<td>1</td>
<td>Continuation of MUS 298 with emphasis on advanced chord work and modulation techniques. Fee.</td>
</tr>
<tr>
<td>MUS 301</td>
<td>MUSIC HISTORY AND LITERATURE I</td>
<td>3</td>
<td>A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.</td>
</tr>
<tr>
<td>MUS 302</td>
<td>MUSIC HISTORY AND LITERATURE II</td>
<td>3</td>
<td>A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.</td>
</tr>
<tr>
<td>MUS 303</td>
<td>INTRODUCTION TO MUSICS OF THE WORLD</td>
<td>3</td>
<td>A survey of music from representative cultures around the world, and its role and function in society.</td>
</tr>
<tr>
<td>MUS 304</td>
<td>HISTORY OF AMERICAN MUSIC</td>
<td>3</td>
<td>Survey of the American musical heritage emphasizing Anglo- and Afro-American folk traditions, early religious music, country music, pioneers in piano, band and concert music, and contemporary popular music. Open to all University students.</td>
</tr>
<tr>
<td>MUS 305</td>
<td>AFRICAN-AMERICAN SACRED MUSIC</td>
<td>3</td>
<td>A historical survey of African-American sacred music from its African roots to the present with an emphasis on developments in recent decades. Examines spirituals, the ring-shout, civil rights songs, the various forms of music.</td>
</tr>
</tbody>
</table>
Gospel music, traditional hymnody of the African-American church, and the musical aspects of black preaching. Open to all University students.

MUS 306  HISTORY OF AMERICAN JAZZ  
Survey of the literature and performance practices from 1690 to the present. Includes blues, Dixieland, ragtime, boogie-woogie, swing, bop, cool, funky, and current techniques. Open to all University students.

MUS 307  DEVELOPMENT OF AMERICAN POPULAR SONG  
Survey of American popular music from the days of the colonies, the war years, the ballad opera, minstrel, vaudeville, operetta, early film music, through Tin Pan Alley to Broadway, including European influences. Open to all University students.

MUS 308  CHAMBER MUSIC AND SYMPHONY  
Formal and harmonic analysis of chamber music. Formal analysis of symphonies of classic, romantic, and contemporary composers
Prerequisite(s): MUS 211, 212.

MUS 309  OPERA HISTORY AND LITERATURE  
Survey of the development of the opera and its literature from its 17th-century beginnings to the present. Focus upon major works and composers. Open to all University students.

MUS 310  MOZART'S OPERAS  
An interdisciplinary survey of Mozart's operas-German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances.

MUS 311  EIGHTEENTH-CENTURY COUNTERPOINT  
Study of the contrapuntal technique of the 18th century, particularly in the instrumental works of J.S. Bach. Original compositions in forms of the invention and the fugue.
Prerequisite(s): MUS 211, 212.

MUS 312  SIXTEENTH-CENTURY COUNTERPOINT  
Study of the medieval modes and the vocal polyphony of the motet and the Mass, up to and including five-part writing; original student compositions.

MUS 313  ADVANCED AURAL SKILLS  
Advanced training in dictation, solfège, and aural analysis.
Prerequisite(s): MUS 215.

MUS 314  SCORE READING  
Training in reading music at the piano from open score. Drill in transposition, improvisation, and reading of various clefs, leading to the realization of full vocal and orchestral scores.

MUS 316  FUNDAMENTALS OF ORCHESTRATION  
Instrumentation studies of the four main orchestral families: woodwinds, brass, percussion, strings. Some work in combining families.
Prerequisite(s): MUS 212.

MUS 318  FUNDAMENTALS OF ARRANGING  
Arranging studies for woodwinds, brass, percussion, strings, and choir. Individual examination of instruments; projects.
Prerequisite(s): MUS 212.

MUS 321  COMPOSITION III  
Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics.
Prerequisite(s): MUS 214.

MUS 322  COMPOSITION III  
Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics.
Prerequisite(s): MUS 321.

MUS 325  BEETHOVEN AND HIS ERA  

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001777&c=-1&p=-1  7/10/2012
Survey of the music of Ludwig van Beethoven, including orchestral works and chamber music, opera, keyboard and sacred music; and a survey of the historical context in which Beethoven lived and worked—Europe and the Habsburg Empire of the late eighteenth and early nineteenth centuries, and especially Vienna, the Habsburg capital. Beethoven is the culmination of the High Classic style and also the first of a new generation of Romantic composers.

MUS 327 MUSIC IN FILM
A survey of the styles, aesthetics, and techniques of film music, emphasizing the interaction of music and visual image in film. Consideration of the changes in the evolution of both film and film music, and their relationship to culture and society.

MUS 328 HISTORY OF THE AMERICAN MUSICAL
A survey of the history and literature of the American musical from its 19th century predecessors to the present day. The course will focus on major representative works, major composers, and other artistic innovators. Open to all University students.

MUS 331 CHORAL MUSIC METHODS
Pedagogical techniques for choral ensembles. Topics include the singing voice, the changing voice, organization, artistic development, literature, and rehearsal techniques. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 332 INSTRUMENTAL MUSIC METHODS
Pedagogical techniques for band and orchestra. Topics include teaching and rehearsal techniques, organization, assessment, learning theories, philosophy, literature, and programming. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 335 CLASSROOM MUSIC METHODS
Pedagogical techniques for classroom music grades preK-8. Topics include the pedagogical methods of Orff, Kodaly, Suzuki, and Dalcroze; lesson-plan design, implementation, and assessment. Special emphasis on the exceptional learner. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 336 WOODWIND PEDAGOGY
Course in woodwind pedagogy offered in two semester-long sections: (1) pedagogical techniques for clarinet and flute; (2) pedagogical techniques for saxophone, oboe, and bassoon. Repeatable up to 2 sem. hrs. Fee.

MUS 337 BRASS PEDAGOGY
Course in brass pedagogy offered in two semester-long sections (1) pedagogical techniques for trumpet and horn; (2) pedagogical techniques for trombone, euphonium, and tuba. Repeatable up to 2 sem. hrs. Fee.

MUS 338 PERCUSSION PEDAGOGY
Course in percussion pedagogy offered in two semester-long sections: (1) Pedagogical techniques for the percussion instruments; (2) performance study on snare drum, mallets and timpani; teaching techniques for accessory instruments; minor repairs: method book analysis. Repeatable up to 1 and ½ sem. hrs. Fee.

MUS 339 STRING PEDAGOGY
Pedagogical techniques for the string instruments. Separate sections for upper strings and lower strings. Each section is a full-term course. Fee.

MUS 340 MUSIC EDUCATION FOR STUDENTS WITH SPECIAL NEEDS
Introduction to issues affecting music education with students who have physical, cognitive, emotional, and sensory challenges that affect the learning process. Specific musical characteristics and needs of special learners will be presented along with methods and strategies for teaching. Information and guidelines regarding regulatory issues related to music.
education will be addressed. Field experience required.

Prerequisite(s): MUS 231.

MUS 345 CHORAL CONDUCTING 2
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for choral ensembles.

Prerequisite(s): MUS 240.

MUS 346 INSTRUMENTAL CONDUCTING 2
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for band and orchestra.

Prerequisite(s): MUS 240.

MUS 350 SACRED MUSIC HISTORY 3
A survey of the development of Christian Music and its function in worship. The focus will be on historical styles, including both their impact on and their application within liturgical settings, as well as on the religious reflections engendered by specific works.

MUS 351 CHURCH MUSIC ADMINISTRATION 2
Examination of the process, organization, administration, planning, and presentation of church music in various Christian traditions. Attention is given to concepts of worship planning, the organization of a comprehensive music program, program development and the relationship between the music ministry and various other church entities.

MUS 360 SPECIAL TOPICS IN MUSIC 1 - 3
Studies in specialized areas of music. May be repeated as topics change, up to six semester hours.

Prerequisite(s): Permission of instructor.

MUS 381 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION I 2
Music improvisation techniques and procedures using piano, percussion, voice, guitar, and student's major instrument. Emphasis on the acquisition of clinical and educational music improvisational skills to be applied in the medical, rehabilitation, clinical and/or school music education setting.

Prerequisite(s): MUS 112, 114, 297.

MUS 382 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION II 2
Intermediate skill development in clinical and educational music improvisation. Emphasis on assessment, implementation, and evaluation of individual, dyadic, and group improvisatory experiences. Acquisition of expressive movement repertoire to improvised music.

Prerequisite(s): MUS 381.

MUS 385 MUSIC THERAPY PRINCIPLES 3
Principles and processes underlying the applications of music in therapy, including philosophical approaches, assessment procedures, goals and objectives, evaluation and documentation techniques, and professional ethics and standards of clinical practice.

MUS 386 MUSIC AND PSYCHOTHERAPY 3
Overview of concepts, methods, and materials in the clinical practice of various forms of music psychotherapy. Exploration of the role and function of music within other therapeutic approaches (e.g., cognitive, humanistic, etc.). Identification of factors and issues affecting the helping process.

MUS 387 PRACTICUM IN MUSIC THERAPY IV 1
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.

Corequisite(s): MUS 385.

MUS 388 PRACTICUM IN MUSIC THERAPY V 1
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.

Corequisite(s): MUS 386.

MUS 390 BAROQUE ENSEMBLE 0.5
Audition required.

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001777&c=-1&p=-1 7/10/2012
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tr>
<td>MUS 390</td>
<td>BRASS ENSEMBLE</td>
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<tr>
<td></td>
<td>Study of repertoire for small brass ensembles including brass quintet, horn ensemble, and others. Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>CLASSICAL GUITAR ENSEMBLE</td>
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<tr>
<td>MUS 390</td>
<td>HANDS IN HARMONY</td>
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<tr>
<td></td>
<td>A sign-singing ensemble.</td>
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<tr>
<td>MUS 390</td>
<td>INDOOR MARCHING PERCUSSION ENSEMBLE</td>
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<td>Study of marching percussion instruments (snare, tenors, melodic bass drums, cymbals, electric bass, electronic keyboards, and &quot;pit&quot; percussion). Preparation of a full indoor show, with music, drill, choreography, and staging. Experience necessary for snare drum, tenor sections. Appearances at area exhibitions and competitions. Winter semester only. Audition required.</td>
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<td>MUS 390</td>
<td>JAZZ COMBO</td>
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<td>Small ensemble study of works by major American jazz composers. Emphasis on group and individual improvisation. Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>OPERA WORKSHOP</td>
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<td>Performance techniques for the singer-actor through the study and performance of music from operatic literature. Improvisational exercises are incorporated. Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>PERCUSSION ENSEMBLE</td>
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<td>Study and performance of concert repertoire for all combinations of percussion instruments, from duets to full percussion ensembles, with occasional piano or string bass accompaniment. Open to all majors and non-majors; experience with preferred but not required (on one or more of the following: snare drum, tympani, drum set, keyboard percussion, world and ethnic percussion, small accessory instruments.) Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>PIANO ENSEMBLE</td>
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<td>Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>STRING ENSEMBLE</td>
<td>0.5</td>
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<td>Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>WOODWIND ENSEMBLE</td>
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<td>A combination of woodwind instruments to include flute choir, clarinet choir, saxophone choir, woodwind quintet, and others.</td>
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<td>MUS 390</td>
<td>CELEBRATION VOCAL TRANSIT</td>
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<td>Students will study performance practices associated with American popular music forms (including pop, soul, jazz, gospel, musical theatre) with particular attention paid to improvisation in the various forms. Students will also learn microphone technique and basic use of PA systems. The semester culminates in a performance of solos, duets, and small ensemble selections.</td>
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<td>MUS 390</td>
<td>CHORAL UNION</td>
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<td>Mixed voice ensembles performing music from all style periods in regular concert appearances. Open to all University students without audition.</td>
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<tr>
<td>MUS 390</td>
<td>DAYTON JAZZ ENSEMBLE</td>
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<td>Ensemble specializes in the interpretation and performance of traditional and contemporary big band jazz, including the art of improvisation. Audition required.</td>
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<tr>
<td>MUS 390</td>
<td>EBONY HERITAGE SINGERS</td>
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<tr>
<td></td>
<td>Ensemble specializing in the sacred music of African-Americans with particular emphasis on contemporary gospel music and improvisation. Open</td>
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</tbody>
</table>
to the entire University community regardless of ethnic background or religious affiliation. No audition required.

MUS 390  LITURGICAL MUSIC LAB ENSEMBLE
Ensemble specializes in the performance of church music repertoire including contemporary Christian, gospel music, worship and praise, and traditional sacred choral literature. No audition required.

MUS 390  MARCHING BAND
Plays at all home and some away football games. Membership includes winds, percussion, twirlers, and Flyerettes. Concentrates on quality sound, offering a wide variety of musical styles. Combines show and corps style elements in presentations. No auditions for winds or percussion. Open to all University students.

MUS 390  PEP BAND
Membership includes winds and percussion only. Performs at all home men's basketball games and some away games. Open to all University students. Preference given to marching band members. Audition required.

MUS 390  UNIVERSITY CONCERT BAND
Meeting Winter semester only, University Concert Band is a non-auditioned ensemble and performs two on-campus concerts. A wide variety of repertoire is performed, including marches, show tunes, concert band standards, contemporary band literature, and solo accompaniments.

MUS 395  SPECIAL TOPICS IN GUITAR
A repeatable guitar class with different topics each term, such as accompaniment, blues, jazz, classical, bluegrass, etc.  
Prerequisite(s): MUS 295 or permission of instructor.

MUS 398  INSTRUMENTAL JAZZ IMPROVISATION
Individualized instruction in instrumental jazz improvisation. Study of jazz theory, aural development, stylistic considerations, and repertoire.  
Prerequisite(s): Participation in Jazz Ensemble and/or Jazz Combo.

MUS 399  PERFORMANCE STUDIES
Private instruction (one 30-45 minute lesson each week) in piano, voice, organ, violin, viola, cello, bass, flute, oboe, clarinet, bassoon, saxophone, trumpet-cornet, French horn, trombone, baritone, tuba, percussion, harp, harpsichord, classical and pick-style guitar, and jazz lessons in piano, guitar, bass, drums, brass, and woodwinds. Fee.  
Prerequisite(s): Permission of instructor.

MUS 401  MEDIEVAL AND RENAISSANCE MUSIC
The development of music from circa 400 to 1600, including plainchant, early polyphony, Ars Nova, and Renaissance music; the relationship of music to other arts and to its historical context. Open to all University students.

MUS 402  BAROQUE MUSIC
Literature and performing practices from 1600 to 1750; the relationship of music to social and cultural movements. Open to all University students.

MUS 403  CLASSIC AND ROMANTIC MUSIC
Literature and performing practices from 1750 to 1900; the relationship of music to social and cultural movements. Open to all University students.

MUS 404  TWENTIETH-CENTURY MUSIC
A study of 20th-century music, its styles, and its cultural contexts, including post-romantic, impressionistic, neo-classic, and avant-garde. Open to all University students.

MUS 405  PIANO LITERATURE
Comprehensive survey of literature for the piano. Required of piano performance majors.

MUS 408  DICTION AND LITERATURE FOR SINGERS
A course in foreign language diction with an associated survey of significant and representative works from the vocal solo repertoire. Course alternates
its content: German and English; and French and Italian. Course may be repeated as content changes.

Prerequisite(s): MUS 399 or 499.

MUS 413 STYLE AND DESIGN-ANALYSIS
Exploration of appropriate analytical techniques as applied to Western music from the Renaissance to the present.

Prerequisite(s): MUS 212.

MUS 414 STYLE AND DESIGN-SYNTHESIS
Exploration and application of various musical styles as demonstrated by original compositions patterned after selected historic models.

Prerequisite(s): MUS 413.

MUS 416 ADVANCED ORCHESTRATION
Continuation of MUS 316. Intensive instrumentation studies and detailed analysis of orchestral work.

Prerequisite(s): MUS 316.

MUS 418 RESEARCH IN MUSIC THEORY
Practical experience in analysis for music composition majors.

Prerequisite(s): Senior standing in music.

MUS 419 RESEARCH IN MUSIC THEORY
Practical experience in analysis for music composition majors.

Prerequisite(s): Senior standing in music.

MUS 421 COMPOSITION IV
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.

Prerequisite(s): MUS 321, 322.

MUS 422 COMPOSITION IV
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.

Prerequisite(s): MUS 321, 322.

MUS 423 COMPOSITION FOR LARGE ENSEMBLES
Preparation and execution of an extended work for large instrumental or vocal ensemble. All aspects of score and part preparation, notation, orchestration, correction, rehearsal, and performance will be considered.

MUS 424 ADVANCED NOTATIONAL TECHNIQUES
Study of special problems in contemporary notation and calligraphy. Work will be done through analysis of 20th-century techniques and creative solutions to individual problems.

MUS 425 ELECTRONIC MUSIC COMPOSITION
Study of musical electronic techniques, ranging from tape recorders and musique concrete through synthesizer and computer-generated and organized sound.

MUS 426 IMPROVISATIONAL MUSIC COMPOSITION
Discussion, study, and performance of improvisational musical techniques, including historical overview of classical extemporization, stream of consciousness, jazz, and aleatory and indeterminism.

MUS 430 JAZZ PEDAGOGY
Methods and materials for the organization and teaching of jazz performance classes. Topics include teaching improvisation, the rhythm section, and repertoire for the school jazz band. Field experience required.

Corequisite(s): Participation in the jazz program.

MUS 431 MARCHING BAND PEDAGOGY
Methods and materials for the organization and teaching of the high school marching band. Topics include teaching and rehearsal techniques, drill design, and philosophy. Field experience required.

Corequisite(s): Participation in the marching band.

MUS 435 PIANO PEDAGOGY

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001777&c=-1&p=-1 7/10/2012
Systematic preparation for the development of piano technique and tone; survey and study of graded teaching material of grades I and II. **Prerequisite(s):** Four terms of piano study or equivalent.

**MUS 440  ADVANCED INSTRUMENTAL CONDUCTING**  
Individualized instruction dealing with advanced analysis, interpretation, aural skills, repertoire study, and conducting. **Prerequisite(s):** MUS 346.

**MUS 452  CONTEMPORARY LITURGICAL MUSIC REPERTOIRE**  
Examination of ways in which contemporary musical resources are utilized in the worship of Christian churches. Choral, congregational, cantoral, and instrumental material will be considered in the context of both the liturgical seasons and specific services. REL 446 recommended.

**MUS 459  CHURCH MUSIC INTERNSHIP**  
Minimum of one semester's supervised service as organist and/or choral director in an approved parish setting. **Prerequisite(s):** Completion of half of certificate requirements; permission.

**MUS 460  SPECIAL STUDIES IN MUSIC**  
Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to nine semester hours. **Prerequisite(s):** Senior standing in music or permission of instructor.

**MUS 461  SPECIAL TOPICS IN CHURCH MUSIC**  
Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to eight semester hours. **Prerequisite(s):** Senior standing in music or permission of instructor.

**MUS 477  HONORS THESIS PROJECT**  
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. **Prerequisite(s):** Approval of the University Honors Program.

**MUS 478  HONORS THESIS PROJECT**  
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. **Prerequisite(s):** Approved 477 and approval of University Honors Program.

**MUS 485  PSYCHOLOGICAL FOUNDATIONS OF MUSIC I**  
Study of the psycho-socio-physiological processes involved in responses to music and sound. Acoustical properties of music and physiology of sound perception. Nature of music ability and its measurement. **Prerequisite(s):** PSY 101; junior standing in music.

**MUS 486  PSYCHOLOGICAL FOUNDATIONS OF MUSIC II**  
Introduction to research methods; review of literature on experimental studies. Research project.

**MUS 489  MUSIC THERAPY INTERNSHIP**  
Minimum of 1040 hours supervised clinical training through resident internship in an AMTA-approved program. This requirement precedes the granting of the music therapy degree. **Prerequisite(s):** Senior standing in music therapy; permission.

**MUS 491  UNIVERSITY ORCHESTRA**  
Performing ensemble of string, wind, brass, and percussion players; preparing literature for orchestra and chamber orchestra. Open to all University community members by audition.
MUS 492  SYMPHONIC WIND ENSEMBLE
Select band that performs the finest in wind literature. Presents regular
concerts during fall and winter terms. Auditions required.

MUS 493  UNIVERSITY CHORALE
Mixed vocal ensemble performing music from all style periods in regular
concert appearances. Open to all University students. Auditions required.

MUS 499  PERFORMANCE STUDIES
Private instruction (1-hr. lessons weekly) in the same subjects as MUS 399.
Fee.
Prerequisite(s): Permission of instructor.
College of Arts and Sciences

(MUS) Music (Collapse Description)

Music is a unique form of expression and communication. A course of study provides for an aesthetic appreciation and an opportunity to translate musical concepts into a valuable and practical skill. The Department of Music of the University of Dayton provides academic coursework to foster artistic understanding and creative thinking, practical instruction to develop musical skills, and substantial laboratory and performance experience.

The Department of Music is a member of the National Association of Schools of Music, which accredits its degree programs and curricula. In addition, the music education degree program is approved by the State of Ohio and the music therapy degree program by the American Music Therapy Association.

The Department of Music has numerous performing ensembles open to all students: the University Chorale, Choral Union, Opera Workshop, Ebony Heritage Singers, and Celebration Vocal Transit; University Orchestra, Symphonic Wind Ensemble, Concert Band, "Pride of Dayton" Marching Band, Pep Band, Jazz ensembles; early music ensembles; and instrumental chamber music ensembles. The Department of Music offers five degree programs:

Bachelor of Arts with a major in Music (MUS)
Bachelor of Music with a major in Music Composition (MUC)
Bachelor of Music with a major in Performance (MUP)
Bachelor of Music with a major in Music Therapy (MUT)
Bachelor of Music with a major in Music Education (MUE)

All prospective music students must be admitted to the University of Dayton by the Office of Admission. In addition, all prospective students must (1) furnish the Department of Music with letters of recommendation from their high school music teachers and/or performance teachers and (2) successfully complete the performance audition, either in person or via tape recording. Specific information regarding audition requirements and dates is available from the Department office.

A minor in music consists of twenty-two semester hours.

Transfer students pursuing a major in MUC, MUP, or MUT must complete at least 24 of the required semester hours in the Department of Music while in residency at the University of Dayton. Transfer students pursuing a major in MUE must complete at least 20 of the required semester hours in the Department of Music while in residency at the University of Dayton. Transfer students pursuing a music minor must complete at least 12 of the required semester hours in the Department of Music while in residency.

Faculty

Donna M. Cox, Chairperson
Professors Emeriti: Sandness
Professors: Benedum, Chenoweth, Cox, Hartley, Magnuson, Snyder, Street
Associate Professors: Morris, Reynolds
Assistant Professors: Brill, Gardstrom, Jones
Visiting Assistant Professors: Caldwell, Hoffman, Schoyen, Sink
Artists-in-Residence: Anderson, Benjamin, Farris, McGutchion, Wright
Lecturer: Hiller

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Music (MUS)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>MUS 301, 302, 303</td>
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</table>
Conducting
MUS 240
Performance studies, including functional keyboard skills
MUS 296, 297, 298, 299, (399 or 499)
Ensemble
MUS (390 or 491 or 492 or 493)
Recital attendance (seven semesters)
MUS 200
Professional Development Workshop (seven semesters)
MUS 202

Liberal Studies Curriculum
Humanities and Fine Arts
- Philosophy and Religious Studies including:
  - PHL 325 3
- History 6
- Literature: English or Foreign Language 3
- Creative and Performing Arts (including MUS or other arts) 3
- Foreign Language and/or Additional Arts and/or Humanities 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

Bachelor of Music with a major in Music Composition (MUC)

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<thead>
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<th>Music</th>
<th>Sem. Hrs.</th>
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<td>Music Theory and Aural Skills</td>
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<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
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<td>Composition</td>
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<td>MUS 121, 122, 221, 222, 321, 322, 421, 422</td>
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<tr>
<td>Music History and Literature</td>
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<td>MUS 301, 302, 303</td>
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<tr>
<td>Score reading</td>
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<td>MUS 314</td>
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<td>Orchestration or arranging</td>
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<td>MUS (316 or 318), 416</td>
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<td>Conducting</td>
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<tr>
<td>Performance Studies(^2)</td>
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<td>Ensemble</td>
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<tr>
<td>MUS (491 or 492 or 493)</td>
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<tr>
<td>Recital attendance (seven semesters)</td>
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<td>MUS 200</td>
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<tr>
<td>Professional Development Workshop (seven semesters)</td>
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<td>MUS 202</td>
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<td>Theory and/or composition electives</td>
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<tr>
<td>MUS electives</td>
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<tr>
<td>Communication Competencies</td>
<td>0-9</td>
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<tr>
<td>Philosophy and Religious Studies (includes PHL 325)</td>
<td>12</td>
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</table>
Natural Sciences 6
Mathematics (excludes MTH 102, 204, 205) 3
Social and Behavioral Sciences 6
Humanities (includes HST 103 or 198) 6
Other non-music electives 6
Introduction to the University: ASI 150 0-1

**General Education courses/academic electives to total at least 126-136**

1 Each composition major must present one and a half recitals of original work by the senior year.
2 Functional Keyboard Skills or equivalent is required.

Bachelor of Music with a major in Music Education (MUE)

<table>
<thead>
<tr>
<th>Music 1</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Functional keyboard skills</td>
<td>4</td>
</tr>
<tr>
<td>MUS 296, 297, 298, 299</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 318</td>
<td></td>
</tr>
<tr>
<td>Introduction to music education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 231</td>
<td></td>
</tr>
<tr>
<td>Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year (seven semesters)</td>
<td>14</td>
</tr>
<tr>
<td>MUS 399</td>
<td></td>
</tr>
<tr>
<td>Recital attendance (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td></td>
</tr>
<tr>
<td>Ensemble</td>
<td>7</td>
</tr>
<tr>
<td>General (five semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS (491 or 492 or 493)</td>
<td></td>
</tr>
<tr>
<td>General (two semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td></td>
</tr>
</tbody>
</table>

Additional requirements for band specialization 2 28.5

Music Education
MUS 195, 238, 331, 332, 335, 336, 337, 338, 339, 340, 430, 431

Conducting
MUS 240, 346

Additional requirements for orchestra specialization 2 28.5

Music Education
MUS 195, 238, 331, 332, 335, 336, 337, 338, 339, 340

Conducting
MUS 240, 346

String minor (two semesters)
MUS 399

Additional requirements for choral specialization 2 28

Music Education
MUS 235, 237, 238, 331, 332, 335, 336, 339, 340
Conducting  
MUS 240, 345

Guitar  
MUS 195, 295

Diction and literature  
MUS 408

Piano or voice minor (two semesters)  
MUS 399

Additional requirements for classroom specialization

Music Education
MUS 235, 237, 238, 331, 332, 335, 336, 339, 340

Conducting  
MUS 240

Guitar  
MUS 195, 295

Improvisation  
MUS 381

Piano or voice minor (three semesters)  
MUS 399

Teacher Education
EDT 110, 110L, 207, 207L, 305, 459, 479

Communication Competencies

Philosophy and Religious Studies including:  
PHL 325

Natural Sciences
6

Mathematics (excludes MTH 102, 204, 205)
3

Social and Behavioral Sciences
3

History
3

HST (103 or 198)

Introduction to the University: ASI 150
0-1

General Education courses/academic electives to total at least 131.5-141.5

1 Students in the music education program are required to maintain a 2.5 cumulative grade point average, and a 2.5 cumulative average in teacher education and music courses.

2 Students will select one of four specialty areas (band, choral, classroom, or orchestra). Upon completion of the degree, candidates will receive a provisional multi-age license from the State of Ohio to teach classroom, instrumental, and vocal music from pre-kindergarten through senior high school.

3 Two semesters of this course must be completed for a total of 2 semester hours.

4 Two semesters of MUS 338 must be completed for a total of 1.5 semester hours.

5 One semester of MUS 338 must be completed for a total of 1 semester hour.

Bachelor of Music with a major in Music Performance (MUP)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Conducting and Arranging</td>
<td>4</td>
</tr>
<tr>
<td>MUS 240, 318</td>
<td></td>
</tr>
<tr>
<td>Performance Studies</td>
<td>30</td>
</tr>
<tr>
<td>Major area of specialization</td>
<td>24-32</td>
</tr>
<tr>
<td>Minor area of specialization</td>
<td>4-12</td>
</tr>
</tbody>
</table>
Ensemble
MUS (491 or 492 or 493)
Recital attendance (seven semesters)
MUS 200
Professional Development Workshop (seven semesters)
MUS 202
MUS electives\(^1\)

Communication Competencies
Philosophy and Religious Studies including:
PHL 325
Natural Sciences
Mathematics (excludes MTH 102, 204, 205)
Social and Behavioral Sciences
Humanities (includes HST 103 or 198)\(^4\)
Other non-music electives\(^4\)
Introduction to the University: ASI 150

General Education courses/academic electives to total at least 126-136

\(^1\)Performance study in major area must lead to a half junior solo recital and a full senior solo recital.
\(^2\)Must include MUS 296-299 or MUS 399.
\(^3\)Voice majors must take MUS 235 and MUS 408; piano majors must include MUS 405 and 435; instrumental majors must take a pedagogy course in their area of specialization.
\(^4\)Voice majors must include two semesters of foreign language study.

Bachelor of Music with a major in Music Therapy (MUT)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>86</td>
</tr>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Conducting and Arranging</td>
<td>4</td>
</tr>
<tr>
<td>MUS 240, 318</td>
<td></td>
</tr>
<tr>
<td>Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year.</td>
<td>10</td>
</tr>
<tr>
<td>MUS 399</td>
<td></td>
</tr>
<tr>
<td>Vocal and instrumental methods, including accompanying instruments of piano and guitar</td>
<td>8</td>
</tr>
<tr>
<td>MUS 195, 295, 296, 297, 298, 299, 338(^2)</td>
<td></td>
</tr>
<tr>
<td>Select one semester hour from:</td>
<td></td>
</tr>
<tr>
<td>MUS 237, 238, 293</td>
<td></td>
</tr>
<tr>
<td>Music therapy, including core courses and practica</td>
<td>26</td>
</tr>
<tr>
<td>Music and dance electives</td>
<td>5</td>
</tr>
<tr>
<td>Ensemble</td>
<td>6</td>
</tr>
<tr>
<td>Recital attendance (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td></td>
</tr>
<tr>
<td>Music therapy internship</td>
<td>2</td>
</tr>
<tr>
<td>MUS 489(^1)</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>12</td>
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<tr>
<td>PSY 101, 351, 355, 363</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>
Communication Competencies 0-9
Philosophy and Religious Studies including:
  PHL 325
Mathematics (excludes MTH 102, 204, 205)
  Recommended
  MTH 207
Humanities (includes HST 103 or 198) 6
Elective 3
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 131-141

1This internship of 1,040 hours is taken after student completes all other course requirements. In order to be recommended for an internship, the student must earn a grade of C- or better in each music therapy course, have an overall grade point average of at least 2.00 and a grade point average of at least 2.50 in music, music therapy, and psychology coursework. Upon successful completion of the internship, the graduate is eligible to take a national certification examination to become a Music Therapist--Board Certified.

2One semester of MUS 338 must be completed for a total of 1 semester hour.

Certificate in Church Music (MCH)

<table>
<thead>
<tr>
<th>Church Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 110¹</td>
<td>FUNDAMENTALS OF MUSIC</td>
</tr>
<tr>
<td>MUS 350</td>
<td>SACRED MUSIC HISTORY</td>
</tr>
<tr>
<td>MUS 351</td>
<td>CHURCH MUSIC ADMINISTRATION</td>
</tr>
<tr>
<td>MUS 390</td>
<td>LITURGICAL MUSIC LAB ENSEMBLE</td>
</tr>
<tr>
<td>MUS 399</td>
<td>PERFORMANCE STUDIES</td>
</tr>
<tr>
<td>MUS 452</td>
<td>CONTEMPORARY LITURGICAL MUSIC REPETOIRE</td>
</tr>
<tr>
<td>MUS 459</td>
<td>CHURCH MUSIC INTERNSHIP</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>MUS 240 FUNDAMENTALS OF CONDUCTING</td>
<td>2</td>
</tr>
<tr>
<td>MUS 545</td>
<td></td>
</tr>
<tr>
<td>Religious Studies²</td>
<td></td>
</tr>
<tr>
<td>REL 446</td>
<td>CHRISTIAN LITURGY</td>
</tr>
<tr>
<td>Choose total of 6 semester hours of study from the following Church Music Workshops:</td>
<td>6</td>
</tr>
<tr>
<td>MUS 318 FUNDAMENTALS OF ARRANGING</td>
<td>2</td>
</tr>
<tr>
<td>MUS 461 SPECIAL TOPICS IN CHURCH MUSIC</td>
<td>1-8</td>
</tr>
<tr>
<td>MUS 505, 506</td>
<td></td>
</tr>
</tbody>
</table>

¹May substitute additional credits in performance studies or church music workshops for MUS 110.

²Or two to three semester hours of a suitable religious studies course.

Minor in Music (MUS)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select twenty-two semester hours¹</td>
<td>22</td>
</tr>
</tbody>
</table>

¹Twelve semester hours must be at the 300- or 400-level.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 104</td>
<td>MUSIC LITERATURE FOR THE ELEMENTARY CLASSROOM</td>
<td>2</td>
</tr>
</tbody>
</table>

Study of music literature and its direct application to elementary classroom use.
MUS 110  FUNDAMENTALS OF MUSIC  
For the student with no previous experience with theory of music. Notation of music, key and time signatures, fundamental harmonic progression, and introduction to the piano keyboard. Elementary ear training and dictation. Open to all University students.

MUS 111  THEORY OF MUSIC I  
Basic vocabulary and grammar of music: fundamentals (intervals, scales, modes, keys, triads), and counterpoint studies. Assignments are done with computer notation programs, and portions of the course use web-based texts.

MUS 112  THEORY OF MUSIC II  
Basic diatonic and chromatic harmonic vocabulary studies, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. 
**Prerequisite(s):** MUS 111 with a grade of C- or better (or permission).

MUS 113  AURAL SKILLS I  
The hearing of musical structure is developed through active listening to representative pieces from music literature. Emphasis on formal relations, musical development and historical styles. Introduction to solfege singing and music transcription.

MUS 114  AURAL SKILLS II  
Further developing the ability to hear musical structure through transcription of intervals, melody, rhythm and harmonic patterns and short musical compositions of music in representative stylistic categories. Use of solfege singing to represent students’ internalization of melodic structure. 
**Prerequisite(s):** MUS 113 with a grade of C- or better (or permission).

MUS 115  MUSIC IN THEORY AND PRACTICE  
Music theory studies in an historical context, appropriate for non-music majors. Fundamentals of music vocabulary and music prior to 1600: origins of melody and counterpoint. Aural skills incorporated into daily classes. Open to all University students. 
**Prerequisite(s):** At least one year of instrument/voice studies which required note-reading ability. 
**Corequisite(s):** Current performance studies or active participation in a music ensemble which requires note-reading skills.

MUS 116  MUSIC IN THEORY AND PRACTICE  
Continuation of MUS 115: music between 1600-1900, harmony and analysis. Aural skills incorporated into daily classes. 
**Prerequisite(s):** MUS 115. 
**Corequisite(s):** Current performance studies or active participation in a music ensemble which requires note-reading skills.

MUS 121  COMPOSITION I  
Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process.

MUS 122  COMPOSITION II  
Supplemental explorations for majors in music composition, to accompany work in MUS 111-112. Basic notational practices and application of traditional techniques to the creative process.

MUS 191  VOICE CLASS  
Basic principles of good singing; development of the voice; vocal literature. Open to all students, especially non-music majors.

MUS 195  BEGINNING GUITAR CLASS I  
Introduction to playing the guitar with emphasis on chord playing and accompaniment, improvisation, and application of the guitar to music teaching.
MUS 196  GROUP PIANO I
For the student with no previous piano study. Rudiments of music reading, performance of simple folk and popular music, basic knowledge of scales, key signatures, and chords. Open to all University students. Fee.

MUS 200  RECITAL ATTENDANCE
All music majors are required to attend professional and student concerts and recitals, to develop critical listening experience and knowledge of repertoire.

MUS 201  MUSIC IN CONCERT
A survey of music literature, styles, and important composers, through preparation for and attendance at selected concerts on the campus and in the community. Concert ticket fees will be required. Open to all University students.

MUS 202  PROFESSIONAL DEVELOPMENT WORKSHOP
All Bachelor of Music majors are required to attend a weekly professional workshop in their degree area. Course format is didactic and/or experiential according to degree program needs. Course material includes a variety of professional, pedagogical, and technological topics. May be repeated.

MUS 203  SIGHTS AND SOUNDS OF MUSIC
An introduction to music and its literature, with emphasis on the way music has been shaped by its cultural, geographic, and historical contexts. Open to all University students.

MUS 205  MUSIC, INSTRUMENTS, AND TECHNOLOGY
A survey of music literature, styles, and important composers, and the way the development of instruments has influenced changes in musical style. The course will also consider the ways technology has altered our approach and access to music making, listening, and dissemination in the twentieth century. Open to all University students.

MUS 211  THEORY OF MUSIC III
Advanced diatonic and chromatic harmonic vocabulary studies and Schenkerian analysis, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts.
Prerequisite(s): MUS 112 with grade of C- or better (or permission).

MUS 212  THEORY OF MUSIC IV
Music of the twentieth century, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts.
Prerequisite(s): MUS 211 with a grade of C- or better (or permission).

MUS 213  AURAL SKILLS III
Explores more advanced musical hearing and transcription techniques through later harmonic, melodic and rhythmic styles. More advanced melodic, harmonic and rhythmic materials as well as the continuing use of solfege singing to represent students' internalization of melodic structure.
Prerequisite(s): MUS 114 with grade of C- or better (or permission).

MUS 214  AURAL SKILLS IV
Late 19th, 20th and 21st century musical structures of harmony, melody, rhythm and compositional development/form explored through listening, transcription and performance.
Prerequisite(s): MUS 213 with a grade of C- or better (or permission).

MUS 221  COMPOSITION II
Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications.
Prerequisite(s): MUS 211.
Corequisite(s): MUS 211.

MUS 222  COMPOSITION II
Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. Corequisites: MUS 211-212.

**MUS 223**  **INTRODUCTION TO MUSIC TECHNOLOGY**  2

Provides students with an introduction to the notation and recording of music with a computer. Students will learn to compile and print music, record digital instruments with MIDI, and record and mix music with portable digital audio workstations.

**Prerequisite(s):** MUS 111 and 112 or MUS 115 and 116 or permission of instructor.

**MUS 231**  **INTRODUCTION TO MUSIC EDUCATION**  2

An introduction to a wide variety of pedagogical and philosophical aspects of teaching the arts. Topics will include technology, national and state standards, history, special learners, reading in the content area, and professional organizations. Field experience is required.

**Prerequisite(s):** EDT 110.

**MUS 232**  **INTEGRATING THE ARTS**  2

MUSIC: Primarily for Teacher Education Majors. Development of knowledge, skills, values, and attitudes in music for integration into a classroom setting in which other classroom subjects are taught.

**Prerequisite(s):** EDT 110.

**MUS 235**  **VOICE PEDAGOGY**  1

Techniques for teaching singing.

**Prerequisite(s):** Voice majors or with permission.

**MUS 236**  **VOICE LABORATORY**  1

Introduction to the performance and pedagogical techniques for voice.

**Prerequisite(s):** Instrumental music majors or by permission of chairperson.

**MUS 237**  **BRASS INSTRUMENT LABORATORY**  1

Introduction to the performance and pedagogical techniques for the brass instrument family.

**MUS 238**  **WOODWIND INSTRUMENT LABORATORY**  1

Introduction to the performance and pedagogical techniques for the woodwind instrument family. Fee.

**MUS 240**  **FUNDAMENTALS OF CONDUCTING**  2

Introductory-level course discussing basic conducting techniques, musical styles, interpretation, score study and analysis, transposition, and literature. Dual emphasis of choral and instrumental techniques.

**MUS 280**  **MUSIC AND MOVEMENT FOR PERSONS WITH DISABILITIES**  1

Training in the use of music and movement for children with disabilities under the supervision of AIM (Adventures in Movement) for the Handicapped, Inc. Includes observations and practices in the field.

**MUS 282**  **FUNCTIONAL MUSIC THERAPY SKILLS**  2

Introduction to melodic and percussive nonsymphonic instruments and voice with particular emphasis on developing a variety of functional clinical skills in both active and receptive music therapy techniques for children and adults.

**MUS 285**  **INTRODUCTION TO MUSIC THERAPY I**  2

History and development of music therapy; survey of theoretical bases and current trends for the use of music in therapy; disability areas using music therapy. Orientation in the clinical field.

**Prerequisite(s):** PSY 101, 393.

**MUS 286**  **INTRODUCTION TO MUSIC THERAPY II**  2

Continuation of MUS 285; orientation to the profession of music therapy through lectures, readings, audiovisual materials, and field trips; emphasis on specific disability areas using music therapy.

**Prerequisite(s):** MUS 285.
MUS 287  PRACTICUM IN MUSIC THERAPY I  
Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.

MUS 288  PRACTICUM IN MUSIC THERAPY II  
Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.

MUS 289  PRACTICUM IN MUSIC THERAPY III  
Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.

MUS 293  ORGAN CLASS  
Introduction to the organ, including basic performance techniques, registration, beginning literature, and hymn playing. Fee.

MUS 294  HARPSICHORD CLASS  
Beginning class lessons in harpsichord performance, including basic technique, stylistic considerations, and simple maintenance and tuning of the instrument. Fee.

MUS 295  BEGINNING GUITAR CLASS II  
Note reading in first position; advanced chord work, introduction to chord solo playing, and improvisation. 
Prerequisite(s): MUS 195 or equivalent.

MUS 296  FUNCTIONAL KEYBOARD SKILLS I  
Class instruction in development of basic performance technique, sight reading, accompanying, transposing, playing by ear, improvising, and score reading. Fee.

MUS 297  FUNCTIONAL KEYBOARD SKILLS II  
Further development of techniques introduced in MUS 296. Fee. 
Prerequisite(s): MUS 296.

MUS 298  FUNCTIONAL KEYBOARD SKILLS III  
Continuation of MUS 297 with emphasis on improvisation and harmonization techniques. Fee.

MUS 299  FUNCTIONAL KEYBOARD SKILLS IV  
Continuation of MUS 298 with emphasis on advanced chord work and modulation techniques. Fee. 
Prerequisite(s): MUS 298.

MUS 301  MUSIC HISTORY AND LITERATURE I  
A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 302  MUSIC HISTORY AND LITERATURE II  
A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 303  INTRODUCTION TO MUSICS OF THE WORLD  
A survey of music from representative cultures around the world, and its role and function in society.

MUS 304  HISTORY OF AMERICAN MUSIC  
Survey of the American musical heritage emphasizing Anglo- and Afro-American folk traditions, early religious music, country music, pioneers in piano, band and concert music, and contemporary popular music. Open to all University students.

MUS 305  AFRICAN-AMERICAN SACRED MUSIC  
A historical survey of African-American sacred music from its African roots to the present with an emphasis on developments in recent decades. Examines spirituals, the ring-shout, civil rights songs, the various forms of
Gospel music, traditional hymnody of the African-American church, and the musical aspects of black preaching. Open to all University students.

MUS 306  HISTORY OF AMERICAN JAZZ  
Survey of the literature and performance practices from 1890 to the present. Includes blues, Dixieland, ragtime, boogie-woogie, swing, bop, cool, funky, and current techniques. Open to all University students.

MUS 307  DEVELOPMENT OF AMERICAN POPULAR SONG  
Survey of American popular music from the days of the colonies, the war years, the ballad opera, minstrel, vaudeville, operetta, early film music, through Tin Pan Alley to Broadway, including European influences. Open to all University students.

MUS 308  CHAMBER MUSIC AND SYMPHONY  
Formal and harmonic analysis of chamber music. Formal analysis of symphonies of classic, romantic, and contemporary composers. 
**Prerequisite(s):** MUS 211, 212.

MUS 309  OPERA HISTORY AND LITERATURE  
Survey of the development of the opera and its literature from its 17th-century beginnings to the present. Focus upon major works and composers. Open to all University students.

MUS 310  MOZART'S OPERAS  
An interdisciplinary survey of Mozart's operas-German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances.

MUS 311  EIGHTEENTH-CENTURY COUNTERPOINT  
Study of the contrapuntal technique of the 18th century, particularly in the instrumental works of J.S. Bach. Original compositions in forms of the invention and the fugue. 
**Prerequisite(s):** MUS 211, 212.

MUS 312  SIXTEENTH-CENTURY COUNTERPOINT  
Study of the medieval modes and the vocal polyphony of the motet and the Mass, up to and including five-part writing; original student compositions.

MUS 313  ADVANCED AURAL SKILLS  
Advanced training in dictation, solfege, and aural analysis. 
**Prerequisite(s):** MUS 215.

MUS 314  SCORE READING  
Training in reading music at the piano from open score. Drill in transposition, improvisation, and reading of various clefs, leading to the realization of full vocal and orchestral scores.

MUS 316  FUNDAMENTALS OF ORCHESTRATION  
Instrumentation studies of the four main orchestral families: woodwinds, brass, percussion, strings. Some work in combining families. 
**Prerequisite(s):** MUS 212.

MUS 318  FUNDAMENTALS OF ARRANGING  
Arranging studies for woodwinds, brass, percussion, strings, and choir. Individual examination of instruments; projects. 
**Prerequisite(s):** MUS 212.

MUS 321  COMPOSITION III  
Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. 
**Prerequisite(s):** MUS 214.

MUS 322  COMPOSITION III  
Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. 
**Prerequisite(s):** MUS 321.

MUS 325  BEETHOVEN AND HIS ERA  
3
Survey of the music of Ludwig van Beethoven, including orchestral works
and chamber music, opera, keyboard and sacred music; and a survey of the
historical context in which Beethoven lived and worked—Europe and the
Habsburg Empire of the late eighteenth and early nineteenth centuries, and
especially Vienna, the Habsburg capital. Beethoven is the culmination of the
High Classic style and also the first of a new generation of Romantic
composers.

MUS 327 MUSIC IN FILM
A survey of the styles, aesthetics, and techniques of film music, emphasizing
the interaction of music and visual image in film. Consideration of the
changes in the evolution of both film and film music, and their relationship to
culture and society.

MUS 328 HISTORY OF THE AMERICAN MUSICAL
A survey of the history and literature of the American musical from its 19th
century predecessors to the present day. The course will focus on major
representative works, major composers, and other artistic innovators. Open
to all University students.

MUS 331 CHORAL MUSIC METHODS
Pedagogical techniques for choral ensembles. Topics include the singing
voice, the changing voice, organization, artistic development, literature, and
rehearsal techniques. National Standards are emphasized as they relate to
specific objectives. Current related practices in technology are incorporated
in specific assignments. Field experience required.

MUS 332 INSTRUMENTAL MUSIC METHODS
Pedagogical techniques for band and orchestra. Topics include teaching and
rehearsal techniques, organization, assessment, learning theories,
philosophy, literature, and programming. National Standards are
emphasized as they relate to specific objectives. Current related practices in
technology are incorporated in specific assignments. Field experience
required.

MUS 335 CLASSROOM MUSIC METHODS
Pedagogical techniques for classroom music grades preK-8. Topics include
the pedagogical methods of Orff, Kodaly, Suzuki, and Dalcroze; lesson-plan
design, implementation, and assessment. Special emphasis on the
exceptional learner. National Standards are emphasized as they relate to
specific objectives. Current related practices in technology are incorporated
in specific assignments. Field experience required.

MUS 336 WOODWIND PEDAGOGY
Course in woodwind pedagogy offered in two semester-long sections: (1)
pedagogical techniques for clarinet and flute; (2) pedagogical techniques for
saxophone, oboe, and bassoon. Repeatable up to 2 sem. hrs. Fee.

MUS 337 BRASS PEDAGOGY
Course in brass pedagogy offered in two semester-long sections (1)
pedagogical techniques for trumpet and horn; (2) pedagogical techniques for
trombone, euphonium, and tuba. Repeatable up to 2 sem. hrs. Fee.

MUS 338 PERCUSSION PEDAGOGY
Course in percussion pedagogy offered in two semester-long sections: (1)
Pedagogical techniques for the percussion instruments; (2) performance
study on snare drum, mallets and timpani; teaching techniques for
accessory instruments; minor repairs: method book analysis. Repeatable up
to 1 and ½ sem. hrs. Fee.

MUS 339 STRING PEDAGOGY
Pedagogical techniques for the string instruments. Separate sections for
upper strings and lower strings. Each section is a full-term course. Fee.

MUS 340 MUSIC EDUCATION FOR STUDENTS WITH SPECIAL NEEDS
Introduction to issues affecting music education with students who have
physical, cognitive, emotional, and sensory challenges that affect the
learning process. Specific musical characteristics and needs of special
learners will be presented along with methods and strategies for teaching.
Information and guidelines regarding regulatory issues related to music
education will be addressed. Field experience required.  
**Prerequisite(s):** MUS 231.

**MUS 345 CHORAL CONDUCTING**
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for choral ensembles.  
**Prerequisite(s):** MUS 240.

**MUS 346 INSTRUMENTAL CONDUCTING**
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for band and orchestra.  
**Prerequisite(s):** MUS 240.

**MUS 350 SACRED MUSIC HISTORY**
A survey of the development of Christian Music and its function in worship. The focus will be on historical styles, including both their impact on and their application within liturgical settings, as well as on the religious reflections engendered by specific works.

**MUS 351 CHURCH MUSIC ADMINISTRATION**
Examination of the process, organization, administration, planning, and presentation of church music in various Christian traditions. Attention is given to concepts of worship planning, the organization of a comprehensive music program, program development and the relationship between the music ministry and various other church entities.

**MUS 360 SPECIAL TOPICS IN MUSIC**
Studies in specialized areas of music. May be repeated as topics change, up to six semester hours.  
**Prerequisite(s):** Permission of instructor.

**MUS 381 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION I**
Music improvisation techniques and procedures using piano, percussion, voice, guitar, and student's major instrument. Emphasis on the acquisition of clinical and educational music improvisational skills to be applied in the medical, rehabilitation, clinical and/or school music education setting.  
**Prerequisite(s):** MUS 112, 114, 297.

**MUS 382 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION II**
Intermediate skill development in clinical and educational music improvisation. Emphasis on assessment, implementation, and evaluation of individual, dyadic, and group improvisatory experiences. Acquisition of expressive movement repertoire to improvised music.  
**Prerequisite(s):** MUS 381.

**MUS 385 MUSIC THERAPY PRINCIPLES**
Principles and processes underlying the applications of music in therapy, including philosophical approaches, assessment procedures, goals and objectives, evaluation and documentation techniques, and professional ethics and standards of clinical practice.

**MUS 386 MUSIC AND PSYCHOTHERAPY**
Overview of concepts, methods, and materials in the clinical practice of various forms of music psychotherapy. Exploration of the role and function of music within other therapeutic approaches (e.g., cognitive, humanistic, etc.). Identification of factors and issues affecting the helping process.

**MUS 387 PRACTICUM IN MUSIC THERAPY IV**
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.  
**Corequisite(s):** MUS 385.

**MUS 388 PRACTICUM IN MUSIC THERAPY V**
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.  
**Corequisite(s):** MUS 386.

**MUS 390 BAROQUE ENSEMBLE**
Audition required.
MUS 390 BRASS ENSEMBLE 0.5
Study of repertoire for small brass ensembles including brass quintet, horn ensemble, and others. Audition required.

MUS 390 CLASSICAL GUITAR ENSEMBLE 0.5

MUS 390 HANDS IN HARMONY 0.5
A sign-singing ensemble.

MUS 390 INDOOR MARCHING PERCUSSION ENSEMBLE 0.5
Study of marching percussion instruments (snare, tenors, melodic bass drums, cymbals, electric bass, electronic keyboards, and "pit" percussion). Preparation of a full indoor show, with music, drill, choreography, and staging. Experience necessary for snare drum, tenor sections. Appearances at area exhibitions and competitions. Winter semester only. Audition required.

MUS 390 JAZZ COMBO 0.5
Small ensemble study of works by major American jazz composers. Emphasis on group and individual improvisation. Audition required.

MUS 390 JAZZ GUITAR ENSEMBLE 0.5

MUS 390 OPERA WORKSHOP 0.5
Performance techniques for the singer-actor through the study and performance of music from operatic literature. Improvisational exercises are incorporated. Audition required.

MUS 390 PERCUSSION ENSEMBLE 0.5
Study and performance of concert repertoire for all combinations of percussion instruments, from duets to full percussion ensembles, with occasional piano or string bass accompaniment. Open to all majors and non-majors; experience with preferred but not required (on one or more of the following: snare drum, tympani, drum set, keyboard percussion, world and ethnic percussion, small accessory instruments.) Audition required.

MUS 390 PIANO ENSEMBLE 0.5
Audition required.

MUS 390 STRING ENSEMBLE 0.5
Audition required.

MUS 390 WOODWIND ENSEMBLE 0.5
A combination of woodwind instruments to include flute choir, clarinet choir, saxophone choir, woodwind quintet, and others.

MUS 390 CELEBRATION VOCAL TRANSIT 1
Students will study performance practices associated with American popular music forms (including pop, soul, jazz, gospel, musical theatre) with particular attention paid to improvisation in the various forms. Students will also learn microphone technique and basic use of PA systems. The semester culminates in a performance of solos, duets, and small ensemble selections.

MUS 390 CHORAL UNION 1
Mixed voice ensembles performing music from all style periods in regular concert appearances. Open to all University students without audition.

MUS 390 DAYTON JAZZ ENSEMBLE 1
Ensemble specializes in the interpretation and performance of traditional and contemporary big band jazz, including the art of improvisation. Audition required.

MUS 390 EBONY HERITAGE SINGERS 1
Ensemble specializing in the sacred music of African-Americans with particular emphasis on contemporary gospel music and improvisation. Open
to the entire University community regardless of ethnic background or religious affiliation. No audition required.

**MUS 390  LITURGICAL MUSIC LAB ENSEMBLE**

Ensemble specializes in the performance of church music repertoire including contemporary Christian, gospel music, worship and praise, and traditional sacred choral literature. No audition required.

**MUS 390  MARCHING BAND**

Plays at all home and some away football games. Membership includes winds, percussion, twirlers, and Flyerettes. Concentrates on quality sound, offering a wide variety of musical styles. Combines show and corps style elements in presentations. No auditions for winds or percussion. Open to all University students.

**MUS 390  PEP BAND**

Membership includes winds and percussion only. Performs at all home men's basketball games and some away games. Open to all University students. Preference given to marching band members. Audition required.

**MUS 390  UNIVERSITY CONCERT BAND**

Meeting Winter semester only, University Concert Band is a non-auditioned ensemble and performs two on-campus concerts. A wide variety of repertoire is performed, including marches, show tunes, concert band standards, contemporary band literature, and solo accompaniments.

**MUS 395  SPECIAL TOPICS IN GUITAR**

A repeatable guitar class with different topics each term, such as accompaniment, blues, jazz, classical, bluegrass, etc.

**Prerequisite(s):** MUS 295 or permission of instructor.

**MUS 398  INSTRUMENTAL JAZZ IMPROVISATION**

Individualized instruction in instrumental jazz improvisation. Study of jazz theory, aural development, stylistic considerations, and repertoire.

**Prerequisite(s):** Participation in Jazz Ensemble and/or Jazz Combo.

**MUS 399  PERFORMANCE STUDIES**

Private instruction (one 30-45 minute lesson each week) in piano, voice, organ, violin, viola, cello, bass, flute, oboe, clarinet, bassoon, saxophone, trumpet-cornet, French horn, trombone, baritone, tuba, percussion, harp, harpsichord, classical and pick-style guitar, and jazz lessons in piano, guitar, bass, drums, brass, and woodwinds. Fee.

**Prerequisite(s):** Permission of instructor.

**MUS 401  MEDIEVAL AND RENAISSANCE MUSIC**

The development of music from circa 400 to 1600, including plainchant, early polyphony, Ars Nova, and Renaissance music; the relationship of music to other arts and to its historical context. Open to all University students.

**MUS 402  BAROQUE MUSIC**

Literature and performing practices from 1600 to 1750; the relationship of music to social and cultural movements. Open to all University students.

**MUS 403  CLASSIC AND ROMANTIC MUSIC**

Literature and performing practices from 1750 to 1900; the relationship of music to social and cultural movements. Open to all University students.

**MUS 404  TWENTIETH-CENTURY MUSIC**

A study of 20th-century music, its styles, and its cultural contexts, including post-romantic, impressionistic, neo-classic, and avant-garde. Open to all University students.

**MUS 405  PIANO LITERATURE**

Comprehensive survey of literature for the piano. Required of piano performance majors.

**MUS 408  DICTION AND LITERATURE FOR SINGERS**

A course in foreign language diction with an associated survey of significant and representative works from the vocal solo repertoire. Course alternates
its content: German and English; and French and Italian. Course may be repeated as content changes.

Prerequisite(s): MUS 399 or 499.

MUS 413 \textit{STYLE AND DESIGN-ANALYSIS} 
Exploration of appropriate analytical techniques as applied to Western music from the Renaissance to the present.

Prerequisite(s): MUS 212.

MUS 414 \textit{STYLE AND DESIGN-SYNTHESIS} 
Exploration and application of various musical styles as demonstrated by original compositions patterned after selected historic models.

Prerequisite(s): MUS 413.

MUS 416 \textit{ADVANCED ORCHESTRATION} 
Continuation of MUS 316. Intensive instrumentation studies and detailed analysis of orchestral work.

Prerequisite(s): MUS 316.

MUS 418 \textit{RESEARCH IN MUSIC THEORY} 
Practical experience in analysis for music composition majors.

Prerequisite(s): Senior standing in music.

MUS 419 \textit{RESEARCH IN MUSIC THEORY} 
Practical experience in analysis for music composition majors.

Prerequisite(s): Senior standing in music.

MUS 421 \textit{COMPOSITION IV} 
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.

Prerequisite(s): MUS 321, 322.

MUS 422 \textit{COMPOSITION IV} 
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.

Prerequisite(s): MUS 321, 322.

MUS 423 \textit{COMPOSITION FOR LARGE ENSEMBLES} 
Preparation and execution of an extended work for large instrumental or vocal ensemble. All aspects of score and part preparation, notation, orchestration, correction, rehearsal, and performance will be considered.

MUS 424 \textit{ADVANCED NOTATIONAL TECHNIQUES} 
Study of special problems in contemporary notation and calligraphy. Work will be done through analysis of 20th-century techniques and creative solutions to individual problems.

MUS 425 \textit{ELECTRONIC MUSIC COMPOSITION} 
Study of musical electronic techniques, ranging from tape recorders and musique concrete through synthesizer and computer-generated and organized sound.

MUS 426 \textit{IMPROVISATIONAL MUSIC COMPOSITION} 
Discussion, study, and performance of improvisational musical techniques, including historical overview of classical extemporization, stream of consciousness, jazz, and aleatory and indeterminism.

MUS 430 \textit{JAZZ PEDAGOGY} 
Methods and materials for the organization and teaching of jazz performance classes. Topics include teaching improvisation, the rhythm section, and repertoire for the school jazz band. Field experience required. 

Corequisite(s): Participation in the jazz program.

MUS 431 \textit{MARCHING BAND PEDAGOGY} 
Methods and materials for the organization and teaching of the high school marching band. Topics include teaching and rehearsal techniques, drill design, and philosophy. Field experience required.

Corequisite(s): Participation in the marching band.

MUS 435 \textit{PIANO PEDAGOGY}
Systematic preparation for the development of piano technique and tone; survey and study of graded teaching material of grades I and II.  
**Prerequisite(s):** Four terms of piano study or equivalent.

**MUS 440  ADVANCED INSTRUMENTAL CONDUCTING**

Individualized instruction dealing with advanced analysis, interpretation, aural skills, repertoire study, and conducting.  
**Prerequisite(s):** MUS 346.

**MUS 452  CONTEMPORARY LITURGICAL MUSIC REPERTOIRE**

Examination of ways in which contemporary musical resources are utilized in the worship of Christian churches. Choral, congregational, cantoral, and instrumental material will be considered in the context of both the liturgical seasons and specific services. REL 446 recommended.

**MUS 459  CHURCH MUSIC INTERNSHIP**

Minimum of one semester's supervised service as organist and/or choral director in an approved parish setting.  
**Prerequisite(s):** Completion of half of certificate requirements; permission.

**MUS 460  SPECIAL STUDIES IN MUSIC**

Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to nine semester hours.  
**Prerequisite(s):** Senior standing in music or permission of instructor.

**MUS 461  SPECIAL TOPICS IN CHURCH MUSIC**

Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to eight semester hours.  
**Prerequisite(s):** Senior standing in music or permission of instructor.

**MUS 477  HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approval of the University Honors Program.

**MUS 478  HONORS THESIS PROJECT**

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**MUS 485  PSYCHOLOGICAL FOUNDATIONS OF MUSIC I**

**Prerequisite(s):** PSY 101; junior standing in music.

**MUS 486  PSYCHOLOGICAL FOUNDATIONS OF MUSIC II**

Introduction to research methods; review of literature on experimental studies. Research project.

**MUS 489  MUSIC THERAPY INTERNSHIP**

Minimum of 1040 hours supervised clinical training through resident internship in an AMTA-approved program. This requirement precedes the granting of the music therapy degree.  
**Prerequisite(s):** Senior standing in music therapy; permission.

**MUS 491  UNIVERSITY ORCHESTRA**

Performing ensemble of string, wind, brass, and percussion players; preparing literature for orchestra and chamber orchestra. Open to all University community members by audition.
MUS 492 SYMPHONIC WIND ENSEMBLE
Select band that performs the finest in wind literature. Presents regular concerts during fall and winter terms. Auditions required.

MUS 493 UNIVERSITY CHORALE
Mixed vocal ensemble performing music from all style periods in regular concert appearances. Open to all University students. Auditions required.

MUS 499 PERFORMANCE STUDIES
Private instruction (1-hr. lessons weekly) in the same subjects as MUS 399. Fee.
Prerequisite(s): Permission of instructor.
College of Arts and Sciences

(PHL) Philosophy (Collapse Description)

The objective of the philosophy major program is to provide students with the opportunity to understand contemporary philosophy in view of the history of philosophy. Students majoring in philosophy must successfully complete a minimum of 37 semester hours. The philosophy major program is also offered in India in conjunction with the Marianists. Consult the chairperson of the department for further information.

A minor in philosophy consists of eighteen semester hours.

Faculty

Paul H. Benson, Chairperson
Professors Emeriti: Kunkel, Monasterio, Nersoyan, Rhodes, Ulrich, Zembaty
Professors: Benson, Johnson, Quinn, Tibbetts
Associate Professors: DesAutels, Fischer, Fouke, Inglis, Kebede, Mosser, Payne, Richards
Assistant Professors: Poe
Visiting Assistant Professors: Slade, Whisnant
Lecturer: Marvin

Majors/Minors (Collapse All)

Major/Minor Name: Bachelor of Arts with a major in Philosophy (PHL)

<table>
<thead>
<tr>
<th>Major</th>
<th>Philosophy</th>
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<tbody>
<tr>
<td></td>
<td>37</td>
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<tr>
<td></td>
<td>PHL 103, 240, 302, 350, (351 or 353 or 354), 352</td>
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<tr>
<td></td>
<td>Four seminars (400-level)</td>
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<td>Nine additional semester hours (300- or 400-level)</td>
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</tbody>
</table>

Liberal Studies Curriculum

- Humanities and Fine Arts
  - Religious Studies | 9 |
  - History | 6 |
  - Literature: English or Foreign Language | 3 |
  - Creative and Performing Arts | 3 |
  - Foreign Language and/or Additional Arts and/or Humanities (excludes PHL courses) | 3-9 |
  - Social Sciences | 12 |
  - Mathematics (excludes MTH 102, 204, 205) | 3 |
  - Natural Sciences | 11 |

Communication Competencies

- Introduction to the University: ASI 150 | 0-1 |

General Education courses/academic electives to total at least 124

Courses in logic and the history of philosophy are prerequisites for the 400-level seminars.

Minor in Philosophy (PHL)

<table>
<thead>
<tr>
<th>Major</th>
<th>Philosophy</th>
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<td>18</td>
</tr>
</tbody>
</table>
Select one course from:

PHL 350, 351, 352, 353, 354

PHL seminar (400-level)¹

Select six additional semester hours (300- or 400-level)

¹Courses in logic and the history of philosophy are prerequisites for the 400-level seminars.

 Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction to philosophical reflection and study of some central philosophical questions in the Western intellectual tradition, including questions of ethics, human knowledge, and metaphysics. Readings from major figures in the history of philosophy such as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, and Kant.</td>
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<tr>
<td>PHL 201</td>
<td>PRACTICAL LOGIC</td>
<td>3</td>
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<tr>
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<td>Introduction to the principles of correct reasoning; techniques for the evaluation of arguments; common fallacies in argumentation; applications to current issues in ethics and other areas.</td>
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<tr>
<td>PHL 240</td>
<td>RESEARCH METHODOLOGIES AND TECHNOLOGIES</td>
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<tr>
<td></td>
<td>Development of research skills appropriate for the major. Students submit papers carefully selected from written work required for major classes. Required for all Philosophy majors.</td>
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<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 302</td>
<td>SYMBOLIC LOGIC</td>
<td>3</td>
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<tr>
<td></td>
<td>Concentrated study of the valid forms of deductive argument and proof in propositional logic and in predicate logic; study of formal systems and of logic and language.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 304</td>
<td>PHILOSOPHY OF HUMAN NATURE</td>
<td>3</td>
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<td>The nature of human beings; the functions of consciousness, the possibility of freedom, the sources of values, and the goals of human life.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 306</td>
<td>PHILOSOPHY OF KNOWLEDGE</td>
<td>3</td>
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<td></td>
<td>Various criteria, origins, and definitions of knowledge proposed by common sense, science, philosophy, and mysticism; questions of evidence, consistency, and validity pertaining to the problem of truth and belief.</td>
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<tr>
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<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 307</td>
<td>PHILOSOPHY AND WOMEN</td>
<td>3</td>
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<tr>
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<td>Issues and problems related to feminist analysis of society and its ideals, such as equal opportunity, sex roles and gender, reverse discrimination, violence, and language.</td>
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<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 308</td>
<td>METAPHYSICS</td>
<td>3</td>
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<tr>
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<td>Issues and problems under such topics as appearance and reality; universals; relations of mind and matter; the nature of persons and personal identity; causality; freedom and determination.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 309</td>
<td>PHILOSOPHY OF MIND</td>
<td>3</td>
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<td>An analysis of the concept of mind and related issues such as Descartes' mind-body dualism and various responses; the nature of human agency, self-deception; and the rationality of emotions.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> (ASI 111, 112) or PHL 103.</td>
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<tr>
<td>PHL 310</td>
<td>SOCIAL PHILOSOPHY</td>
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<tr>
<td></td>
<td>The concepts of liberty, justice, and equality as they relate to social problems such as punishment and rehabilitation, insanity and responsibility,</td>
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</tbody>
</table>
privacy, population regulation, economic injustice, environmental degradation, discrimination, and reverse discrimination.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 311 PHILOSOPHY OF RELIGION
The main issues involved in religious belief and practice, such as the relationship between reason and revelation; critical presentation of views of main writers in the field.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 312 ETHICS
Various types of moral and ethical theory in the Western tradition and major problems such as the extent of human responsibility and the conditions for making ethical judgments.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 313 BUSINESS ETHICS
Review of general ethical theory; ethical assessments of incidents that often occur in commerce affecting employees, employers, consumers, competitors, or the local community.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 314 PHILOSOPHY OF LAW
Major concepts of law to include the nature of law, legal reasoning, liberty, justice, responsibility, punishment.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 315 MEDICAL ETHICS
Introduction to morality in general and inquiry into the major moral problems of medical practice: human life and the preservation of its integrity.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 315W PROBLEMS IN MEDICAL ETHICS
An analysis of special ethical issues raised in a specific area of medical practice. Web-based course. May be repeated when topic changes.

Prerequisite(s): (ASI 111, 112) or PHL 103; PHL 315 or REL 367.
Corequisite(s): PHL 315 or REL 367.

PHL 316 ENGINEERING ETHICS
Introduction to ethical issues in engineering by developing theories of moral justification and codes of ethics for engineers, and by applying these theories and codes to moral issues in engineering.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 317 ETHICS AND MODERN WAR
Study in applied ethics focusing on the implications of power politics and militarism; various ethical approaches used to evaluate wars, terrorism and violence; and an overview of some alternatives to war.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 318 FAMILY ETHICS
Introduction to the development of the concept of a family in the tradition of Western philosophy and the philosophic analysis of contemporary ethical problems in marriage and in parenthood.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 319 INFORMATION ETHICS
Examination of ethical principles, codes, cases, incidents, and issues in the design, implementation, and use of computerized information systems.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 320 PHILOSOPHY OF ART
Theories of art and criteria of evaluation developed by philosophers, artists, and critics; the relationship between art and society and between artistic and other human values.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 321 ENVIRONMENTAL ETHICS
Study of the principal ethical perspectives on the treatment of animals and nature including such issues as agriculture, energy, pollution, and
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PHL 323</td>
<td>PHILOSOPHY AND LITERATURE</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 324</td>
<td>PHILOSOPHY AND FILM</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 325</td>
<td>PHILOSOPHY OF MUSIC</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 327</td>
<td>PHILOSOPHY OF PEACE</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 330</td>
<td>PHILOSOPHY OF SCIENCE</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 331</td>
<td>SCIENCE, OBJECTIVITY, AND VALUES</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 332</td>
<td>TECHNOLOGY AND VALUES</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 333</td>
<td>PHILOSOPHY AND COGNITIVE SCIENCE</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 340</td>
<td>SPECIAL PROBLEMS IN PHILOSOPHY</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>1-3</td>
</tr>
<tr>
<td>PHL 345</td>
<td>PHILOSOPHY SCHOLARS' SEMINAR</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 350</td>
<td>CLASSICAL GREEK PHILOSOPHY</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
<tr>
<td>PHL 351</td>
<td>MEDIEVAL PHILOSOPHY</td>
<td>(ASI 111, 112) or PHL 103</td>
<td>3</td>
</tr>
</tbody>
</table>
Major philosophical problems from the 4th through the 16th centuries and their importance in shaping current beliefs and traditions in the Augustinian, Jewish, Islamic, Persian, Thomist, and Oxford cultural settings; human action, conscience, freedom, and law.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 352 MODERN PHILOSOPHY**  
Development of philosophy in the 17th and 18th centuries up to Kant with a focus on several major philosophical figures such as Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 353 KANT AND NINETEENTH-CENTURY PHILOSOPHY**  
Development of philosophy beginning with Kant through the 19th century including Kant and philosophers such as Fichte, Schelling, Hegel, Schopenhauer, Nietzsche, James, Peirce, and Frege.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 354 TWENTIETH-CENTURY PHILOSOPHY**  
A study of some of the major philosophical movements in the 20th century including phenomenology, existentialism, critical theory (Frankfurt School), hermeneutics, and analytic philosophy.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 355 EASTERN PHILOSOPHY**  
Introduction to the ways of Asian wisdom considering Oriental philosophy as a specialized learning directed to the attainment of enlightenment and equanimity. Comparisons with Western traditions.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 356 CHRISTIAN PHILOSOPHY**  
Major issues such as the relation of faith to reason, the relation of science to faith, and the problem of natural law; works by contemporary philosophers such as Kierkegaard, Marcel, Maritain, Noonan, and Plantinga.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 357 RADICAL PHILOSOPHY**  
Study of major attempts to develop a critical understanding of society; analysis of theories such as socialism, anarchism, feminism, critical theory, and critical race theory.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 358 MARXIST PHILOSOPHY**  
Introduction to the thought of Karl Marx through a study of the historical setting of the man and his writings, along with recent interpretations of his thought.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 360 EXISTENTIALISM**  
Major themes in representatives of the existentialist movement, such as human freedom, the absurdity of human existence, the primacy of action, and the roles of speculation and the emotions.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 361 AMERICAN PHILOSOPHY**  
Introduction to selected writings of such classical American thinkers as Thoreau, James, Mead, Dewey, Santayana, and Whitehead. Topics include knowledge, freedom, and human values.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 362 PHILOSOPHY OF LANGUAGE**  
Theories of meaning and reference and their philosophical significance.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 363 AFRICAN PHILOSOPHY**  
Introduction to African world views, ethical notions, and social ideas using analytical and comparative approaches; examination of concepts of human diversity and universality; analysis of the transition of traditional African culture to modernity.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.
PHL 364  RACE, GENDER, AND PHILOSOPHY  
A philosophical investigation into the systematic nature of racism and sexism, including inquiry into the epistemological, metaphysical, linguistic, and representational structures that sustain and perpetuate the power dynamics of western post-colonial patriarchal society.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 365  ISLAMIC PHILOSOPHY AND CULTURE  
Examination of selected Islamic thinkers and philosophical traditions, from the period of the Ummayyad Caliphate to the postcolonial era, and their influence on Christian and Jewish thought. Islamic conceptions of law, political society, ethics, hermeneutics, science, revelation, and reality. Special emphasis upon the role of the arts in shaping Islamic philosophy.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 370  POLITICAL PHILOSOPHY  
Philosophical theories regarding the nature of the state and the legitimization of political authority will be analyzed and evaluated in the context of philosophical conceptions of human nature, liberty, equality, justice, welfare, and power.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 371  PHILOSOPHY AND HUMAN RIGHTS  
Examination of the nature and philosophical foundations of universal moral (human) rights; and application of human rights theory to issues and cases involving civil and political rights, and rights to equality, security, subsistence, education, welfare, employment, and health care.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 372  VALUES AND ECONOMICS  
An inquiry into the impact of values and beliefs on the generation of modern economic forces. Analyzing capitalism as a system of validation of beliefs and values, the course relates underdevelopment with the conflict between tradition and modernity. It then reflects on the conditions of change liable to promote global expansion.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 373  PHILOSOPHY AND CULTURAL DIVERSITY  
Philosophical investigation into historical, social, and political dimensions of human diversity in its various manifestations. Topics include colonialism, racism, multiculturalism, nationalism, and democracy.

PHL 440  SEMINAR-ADVANCED PROBLEMS IN PHILOSOPHY  
Detailed examination of some of the more technical problems of philosophy as well as those problems that arise in interdisciplinary settings upon which philosophers have brought their technical skills to bear. May be repeated when topic varies.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 451  SEMINAR-INDIVIDUAL PHILOSOPHERS  
Detailed examination of the thought of an individual philosopher (e.g., Aquinas, Kant, Rawls, Quine) who is of sufficient importance to warrant special study. May be repeated when topic varies.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 461  SEMINAR-CONTEMPORARY EPistemology  
Study of recent philosophical work in the theory of knowledge inclusive of scepticism, knowledge and belief, evidence and justification, theories of perception and knowledge, human interests and valuation.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 462  SEMINAR-CONTEMPORARY ETHICS  
Study of recent philosophical work in ethics inclusive of an analysis of ethical concepts, theories of normative ethics, theories of human action, and moral justification.  
Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 463  SEMINAR-CONTEMPORARY METAPHYSICS  
Study of recent work in metaphysics inclusive of the nature of metaphysics, causality, free will and determinism, personal identity and the theory of mind
and body.

Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 477  HONORS THESIS PROJECT  3

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approval of the University Honors Program.

PHL 478  HONORS THESIS PROJECT  3

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approved 477 and approval of University Honors Program.

PHL 490  DIRECTED READINGS  1 - 4

Guided independent study primarily for philosophy majors but open to students who have completed 12 sem. hrs. in philosophy. Normally 3 sem. hrs. but in certain cases the chairperson may approve 1, 2, or 4 sem. hrs. May be repeated when topic changes.

Prerequisite(s): (ASI 111, 112) or PHL 103; permission of chairperson and instructor.

PHL 492  DIRECTED RESEARCH  3

Faculty-directed research for philosophy majors who have completed all 300-level requirements and at least one 400-level seminar. Students will write a substantial paper in relation to this research.

Prerequisite(s): (ASI 111, 112) or PHL 103; permission of chairperson and instructor.

PHL 495  INTERNSHIP  1 - 3

Supervised practical and professional experience related to philosophy for philosophy majors who have completed prescribed course work. May be repeated to a maximum of 3 sem. hrs. Grading Option 2 only.

Prerequisite(s): ASI 111, 112; PHL 103, 302, 350, 352; one 400-level seminar; permission of chairperson.
Physics (PHY) Physics (Collapse Description)

The program leading to the Bachelor of Science with a major in physics is designed to provide a strong yet versatile basis for a subsequent scientific career or advanced study. Minimum requirements for all majors are listed below, but students planning for graduate work in physics or an allied area are advised to select additional mathematics and physics courses. A physics major must complete all 300-400-level courses with a 2.0 minimum grade-point average.

Students have the option of adding a multidisciplinary concentration in electro-optics to their physics degree. The concentration is appropriate for physics majors who wish to pursue possible careers in photonics or graduate degrees in the area of optics.

PHY, PSC, and PCS majors are required to attain a grade of C- or better in all physics and math courses that are prerequisite courses for physics courses required of majors.

A minor in physics consists of twelve semester hours.

Faculty
J. Michael O'Hare, Chairperson
Distinguished Professor: Bueche
Professors Emeriti: Graham, Kepes, Miner
Professors: Evwaraye, O'Hare, Pedrotti, Yaney
Associate Professors: Berney, Brecha, Craver, Elhamri, Erdei, Powers
Assistant Professors: Ahoujja, Smith
Lecturer: Goldmann

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Science with a major in Physical Science (PSC)

The Physical Science Program is administered by the Department of Physics. It provides a broad training in the physical sciences that is desirable for one who plans to pursue a goal built on a composite science background. The physical science major combines adequate physics, chemistry, geology, and mathematics to provide a sound working knowledge of physical science. Since the program is less specialized than one in a single science, it has provision for adequate course selections and sufficient electives to provide the opportunity for concentrated study in a discipline chosen to meet the career objectives of the individual student.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>PHY 206, 207, 208, 210L, 211L</td>
<td>11</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHM 123-123L, 124-124L</td>
<td>8</td>
</tr>
<tr>
<td>Geology</td>
<td></td>
</tr>
<tr>
<td>GEO 115-115L, 116-116L</td>
<td>8</td>
</tr>
<tr>
<td>Upper-level physical sciences</td>
<td>26</td>
</tr>
<tr>
<td>Breadth Requirement</td>
<td>36</td>
</tr>
<tr>
<td>Mathematics, Computer Science</td>
<td>18</td>
</tr>
<tr>
<td>CPS (132 or 144)</td>
<td></td>
</tr>
<tr>
<td>MTH 168, 169, 218, 219</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
</tbody>
</table>
Communication Competencies 3-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

\(^1\)At least 12 semester hours in physics.

Bachelor of Science with a major in Physics (PHY)

<table>
<thead>
<tr>
<th>General Physics Concentration</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 206, 207, 208, 210L, 211L, 301, 303, 333, 390, 406, 430L, 431L</td>
<td>37</td>
</tr>
<tr>
<td>PHY electives (300- and 400-level)</td>
<td>30</td>
</tr>
</tbody>
</table>

Breadth Requirement

| Natural Sciences | 8 |
| Mathematics, Computer Science | 21 |
| CPS (132 or 144) | |
| MTH 168, 169, 218, 219, 302 | |
| Social and Behavioral Sciences | 6 |
| Humanities | 9 |
| Philosophy and Religious Studies | 12 |

| Communication Competencies | 3-9 |
| Introduction to the University: ASI 150 | 0-1 |
| General Education courses/academic electives to total at least | 120 |

Physics and Electro-optics Concentration 42

| ECE 443 | |
| PHY 206, 207, 208, 210L, 211L, 301, 303, 333, 404, 406, 430L, 431L | |
| Any two from: EOP 501, 502, 505, 506 or ECE 573, 513 or ECE 572, 514 or ECE 514 | 6 |

Breadth Requirement

| Natural Sciences | 8 |
| Mathematics, Computer Science | 21 |
| CPS (132 or 144) | |
| MTH 168, 169, 218, 219, 302 | |
| Social Science and Behavioral Science | 6 |
| Humanities | 9 |
| Philosophy and Religious Studies | 12 |

| Communication Competencies | 3-9 |
| Introduction to teh University: ASI 150 | 0-1 |
| General Education courses/academic electives to total at least | 120 |

Bachelor of Science with a major in Physics-Computer Science (PCS)

This combined program in physics and computer science leading to the Bachelor of Science with a major in Physics-Computer Science emphasizes the use of computer software in scientific applications and at the same time gives a foundation in the scientific disciplines of physics and computer science. Minimum requirements for the degree are listed below. Students are advised to select additional computer science, mathematics, and physics courses as electives. For further information contact the Physics Department.

<table>
<thead>
<tr>
<th>Computer Science(^1)</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>
Physics

CPS 150, 151, 250, 346, 350, 353
Two additional courses (350-level or above)

Mathematics 18
MTH 168, 169, 218, 219, 302

Physics\(^2\) 27-30
PHY 206, 207, 208, 210L, 211L, 323, 333
Four additional courses (300- or 400-level)

Breadth Requirement 27
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

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1 Additional numerical analysis courses are recommended.
2 A senior project involving some application of computers in physics is recommended.

Minor in Physics (PHY)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 100</td>
<td>SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Opportunity to become acquainted with the broad spectrum of modern science through periodic meetings with the entire department. Invited speakers, films, student presentations, book reviews, and informal discussions. For all physics, physical science, and physics-computer science majors.</td>
<td></td>
</tr>
<tr>
<td>PHY 105</td>
<td>PHYSICAL SCIENCE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Broad introduction to physical science. Emphasis on concepts and scientific thought processes dealing with principles in physics; some applications to chemistry, astronomy, and meteorology. This course includes an integrated laboratory component. For nonscience students.</td>
<td></td>
</tr>
<tr>
<td>PHY 108</td>
<td>PHYSICAL SCIENCE OF LIGHT AND COLOR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A treatment of physical science with emphasis on light, color, and the interaction of light with materials. For nonscience students.</td>
<td></td>
</tr>
<tr>
<td>PHY 108L</td>
<td>LIGHT AND COLOR LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Laboratory experiences to accompany PHY 108. <strong>Corequisite(s):</strong> PHY 108.</td>
<td></td>
</tr>
<tr>
<td>PHY 201</td>
<td>GENERAL PHYSICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from mechanics, thermal and mechanical properties of matter, wave motion and sound, and electricity without the formalism of calculus. First term, each year.</td>
<td></td>
</tr>
<tr>
<td>PHY 201L</td>
<td>GENERAL PHYSICS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Introductory laboratory appropriate for students of the health sciences. Experimental scientific techniques and the use of standard laboratory equipment. One two-hour period each week. First term, each year. <strong>Corequisite(s):</strong> PHY 201 or 206.</td>
<td></td>
</tr>
<tr>
<td>PHY 202</td>
<td>GENERAL PHYSICS</td>
<td>3</td>
</tr>
</tbody>
</table>
Continuation of PHY 201 with a treatment of electricity and magnetism, wave motion and properties of light, atomic and nuclear physics. Second term, each year.

**Prerequisite(s):** PHY 201.

**PHY 202L** GENERAL PHYSICS LABORATORY

Experimental scientific techniques and the use of standard laboratory equipment. One two-hour period per week. Second term, each year.

**Prerequisite(s):** PHY 201L.

**PHY 203** MODERN TECHNICAL PHYSICS

Introduction to selected topics in modern physics without the formalism of calculus. For engineering technology students.

**Prerequisite(s):** College algebra, trigonometry, and introductory statics and dynamics.

**PHY 203L** TECHNICAL PHYSICS LABORATORY

Laboratory experiences to accompany PHY 203.

**PHY 206** GENERAL PHYSICS I-MECHANICS

Introductory course in mechanics for students with a strong background in physics. Three lectures, one recitation each week.

**Corequisite(s):** MTH 148 or 168.

**PHY 206H** GENERAL PHYSICS I - MECHANICS (HONORS)

Introductory course in mechanics for students with a strong background in physics. Three lectures, one recitation each week. By invitation only.

**Corequisite(s):** MTH 148 or 168.

**PHY 207** GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM

The basic principles of electricity and magnetism. Three lectures, one recitation each week.

**Prerequisite(s):** PHY 201 or 206.

**Corequisite(s):** MTH 149 or 169.

**PHY 208** GENERAL PHYSICS III - MECHANICS OF WAVES

Introduction to wave phenomena (including sound, light, and matter waves) leading to basic concepts in modern physics.

**Prerequisite(s):** (MTH 149; PHY 202) or (MTH 169; PHY 207).

**PHY 210L** GENERAL PHYSICS LABORATORY I

Introduction to laboratory methods, handling of data, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week.

**Corequisite(s):** PHY 206.

**PHY 211L** GENERAL PHYSICS LABORATORY II

Laboratory methods, data handling, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week.

**Prerequisite(s):** PHY 210L.

**Corequisite(s):** PHY 207.

**PHY 232** THE PHYSICS OF WAVES

Physical concept and mathematical relations describing wave phenomena in a variety of physical systems. Topics include oscillation in mechanical and electrical systems, mechanical and electromagnetic waves, geometrical and physical optics and matter waves. Designed for electrical and computer engineering students, but open to all meeting the prerequisites.

**Prerequisite(s):** PHY 206; MTH 169.

**Corequisite(s):** MTH 169.

**PHY 250** DESCRIPTIVE ASTRONOMY

Descriptive survey for students who have had little or no previous exposure to astronomy; material from ancient times to present, including pulsars and quasi-stellar objects.

**PHY 301** THERMAL PHYSICS
Thermodynamical descriptions of many particle systems obtained from microscopic statistical considerations; laws of thermodynamics, kinetic theory of dilute gases, and Fermi-Dirac and Bose-Einstein statistics.

**Prerequisite(s):** PHY 208 or 232.

**Corequisite(s):** MTH 219.

**PHY 303**  
**INTERMEDIATE MECHANICS I**  
The fundamental concepts of mechanics: virtual work, kinematics, special theory of relativity, Lagrange's equation-and central forces, particle dynamics.

**Prerequisite(s):** PHY 208 or 232.

**Corequisite(s):** MTH 219.

**PHY 321**  
**ATOMIC AND NUCLEAR PHYSICS**  
Concepts and models of the structure of matter; atoms, ions, electrons and nuclei, radioactivity, interactions of radiation with matter, particle detection, accelerators, nuclear models, nuclear reactions and processes, and fundamental particles.

**Prerequisite(s):** PHY 208 or 232 or permission of instructor.

**PHY 323**  
**COMPUTATIONAL PHYSICS**  
The course will explore how computers are used in physics. Topics will include simulations of physical systems, numerical analysis, and the use of mathematical analysis packages (MATHCAD, for example.) Programming will be done in True BASIC and MATHCAD.

**Prerequisite(s):** MTH 218; PHY 208 or 232.

**PHY 333**  
**DIGITAL AND ANALOG ELECTRONICS FOR SCIENTISTS**  
Basic concepts of digital and analog integrated circuit electronics are developed as a way to understand modern microcomputer based instrumentation. A microcomputer based data collection and analysis system is used to study binary data input and output, analog to digital conversion (ADC) devices, digital to analog conversion (DAC) devices, and other digital integrated circuits and concepts. The analog electronics part of the course begins with a study of discrete analog devices and ends with operational amplifiers and their application. Two hours lecture and two-hour laboratories each week.

**Prerequisite(s):** PHY 202L or PHY 211L or equivalent.

**PHY 390**  
**INTRODUCTION TO QUANTUM MECHANICS**  
Basic postulates of quantum mechanics with applications made to atomic physics.

**Prerequisite(s):** MTH 219; PHY 208 or 232.

**Corequisite(s):** MTH 302.

**PHY 395**  
**RESEARCH PARTICIPATION I**  
Individual projects conducted as part of the physics Undergraduate Research Participation program to encourage involvement of students with faculty researchers. Projects must be arranged in advance with faculty research directors.

**PHY 399**  
**SPECIAL PROBLEMS IN (NAMED AREA)**  
Special topical courses, laboratory, tutorial, or library work in areas of current interest. Students should consult the composite.

**PHY 403**  
**INTERMEDIATE MECHANICS II**  
Emphasis on solving physical problems: noninertial coordinate systems, rigid body motion, rotating systems, coupled systems, introductory fluid statics and dynamics, normal coordinates, and the descriptions of mechanics appropriate for the transition to wave mechanics.

**Prerequisite(s):** PHY 303.

**PHY 404**  
**PHYSICAL OPTICS**  
The electromagnetic wave theory of light, propagation of waves, reflection, refraction, dispersion, polarization, dichroism, birefringence, superposition of waves, interference, diffraction, Fourier optics.

**Prerequisite(s):** MTH 219; PHY 208 or 232.

**PHY 408**  
**INTERMEDIATE ELECTRICITY AND MAGNETISM I**  
Electrostatics, Coulomb's law, Gauss's law, potential, dielectric materials, electrostatic energy, solutions to Laplace's and Poisson's equations, Biot-
Savart law, Faraday induction law, magnetization, and Maxwell's equations.

**Prerequisite(s):** MTH 219; PHY 208 or 232.

**PHY 409 INTERMEDIATE ELECTRICITY AND MAGNETISM II**

Further study of electric and magnetic fields with emphasis on solving problems; Maxwell's equations, propagation of electromagnetic waves, electromagnetic radiation.

**Prerequisite(s):** PHY 408.

**PHY 411 TOPICS IN MODERN PHYSICS**

Elements of modern optics, solid state and other selected subjects. Consult chairperson for details.

**Prerequisite(s):** PHY 390 or equivalent.

**PHY 420 INTRODUCTION TO SOLID STATE**

Classification of solids, crystals and crystal structures, survey of lattice properties, free electron theory, band theory of solids, semi-conductors, and crystal imperfections.

**Prerequisite(s):** MTH 219; PHY (208 or 232), 390.

**PHY 430L ADVANCED LABORATORY**

Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.

**Prerequisite(s):** PHY 333.

**Corequisite(s):** An advanced course in Physics.

**PHY 431L ADVANCED LABORATORY**

Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.

**Prerequisite(s):** PHY 333.

**Corequisite(s):** An advanced course in Physics.

**PHY 432L ADVANCED LABORATORY**

Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.

**Prerequisite(s):** PHY 333.

**Corequisite(s):** An advanced course in Physics.

**PHY 433L ADVANCED LABORATORY**

Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.

**Prerequisite(s):** PHY 333.

**Corequisite(s):** An advanced course in Physics.

**PHY 440 QUANTUM MECHANICS II**

Study of selected principles in quantum mechanics.

**Prerequisite(s):** PHY 390.

**PHY 450 SENIOR PROJECT**

The senior project is a capstone experience for senior physics majors. It will consist of a research project of the student's choosing and will require both an oral and written report. The nature and scope of the project will be chosen in consultation with the student's advisor. Permission of the department chairperson is required. Senior physics majors only.

**PHY 460 SEMINAR**

Presentation of papers by undergraduate students, faculty, and a guest lecturers on topics of concern to the modern physicist. Reviews of books and films appropriate to the group.

**PHY 477 HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the
guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**PHY 478  HONORS THESIS PROJECT 3**
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**PHY 495  RESEARCH PARTICIPATION II 1-6**
Individual projects conducted as part of the physics Undergraduate Research Participation program to encourage involvement of students with faculty researchers. Projects must be arranged in advance with faculty research directors.

**PHY 499  SPECIAL PROBLEMS IN (NAMED AREA) (HONORS) 1-6**
Laboratory, tutorial, or library work in one of such selected topics as solid state physics, polymers, atomic and nuclear physics, modern optics, theoretical physics, surface physics, or general physics.

**Prerequisite(s):** Permission of department chairperson.
College of Arts and Sciences

(POL) Political Science

A major in political science requires 36 semester hours of political science courses. A minor in political science consists of fifteen semester hours. Courses selected by students should strengthen academic or career objectives.

Minors and Area Concentrations for Majors

A student majoring in political science may elect licensure in education (see EDT) or a minor in any related discipline within the College of Arts and Sciences. The student must consult with the department administering the discipline for the particular requirements of a minor. Students majoring in political science may elect to develop a multidisciplinary concentration in an area of interest including prelaw, international affairs, public administration and urban affairs, political journalism or others developed by the student in conjunction with his or her advisor.

Faculty

Christopher Duncan, Chairperson
Professors Emeriti: Lapitan, Kerns
Professors: Ahern, Duncan, Kerns
Associate Professors: Bilcercikowycz, Ensalaco, Ghere, Ingram, Inscho
Assistant Professors: Martorano, Nelson, Pierce
Lecturer: Putka

Majors/Minors (Collapse All)

Bachelor of Arts with a major in Political Science (POL)

Sem. Hrs. 36
POL 201, (202 or 214), 207, 317 9
Select twenty-four additional semester hours\(^1\) 24

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

\(^1\)Including twenty semester hours at the 300- or 400-level.

Minor in Political Science (POL)
Political Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 101</td>
<td>GLOBAL POLITICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Examination of major problems and trends in world politics such as ethnic and religious conflict, economic integration and inequality, democratization and security issues, as well as the role of regional and international organizations.</td>
<td></td>
</tr>
<tr>
<td>POL 201</td>
<td>THE AMERICAN POLITICAL SYSTEM</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the American political system, its attitudinal and constitutional base, its structure and processes.</td>
<td></td>
</tr>
<tr>
<td>POL 202</td>
<td>INTRODUCTION TO COMPARATIVE POLITICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of major concepts and approaches in the study of comparative government and politics.</td>
<td></td>
</tr>
<tr>
<td>POL 207</td>
<td>POLITICAL ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to the basic concepts and processes of research in political science.</td>
<td></td>
</tr>
<tr>
<td>POL 214</td>
<td>INTRODUCTION TO INTERNATIONAL POLITICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of the dynamic forces of conflict and cooperation in world politics.</td>
<td></td>
</tr>
<tr>
<td>POL 300</td>
<td>POLITICAL ISSUES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introductory examination of contemporary political issues selected by the instructor, such topics as welfare, political morality, political campaigns, institutional reform, and political economy.</td>
<td></td>
</tr>
<tr>
<td>POL 301</td>
<td>THE AMERICAN JUDICIAL PROCESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the judicial process as part of the political system. Focus on the participants (police, lawyers, judges, interest groups, litigants, jurors) and the process (criminal, civil, and appellate proceedings).</td>
<td></td>
</tr>
<tr>
<td>POL 303</td>
<td>STATE AND LOCAL GOVERNMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Comparative study of the political institutions, processes, and systems of the fifty states and their effect on the content and administration of selected public policies, programs, and services.</td>
<td></td>
</tr>
<tr>
<td>POL 305</td>
<td>INTRODUCTION TO PUBLIC ADMINISTRATION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic principles of organization and management in executive departments of government at all levels; questions of planning, leadership, and control.</td>
<td></td>
</tr>
<tr>
<td>POL 306</td>
<td>PUBLIC POLICY ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to public policy-making systems and the methodology of policy analysis; theories of policy formulation, the policy-making process, means for measuring policy effectiveness, analysis of proposals for policy change.</td>
<td></td>
</tr>
<tr>
<td>POL 307</td>
<td>THE POLITICS OF BUREAUCRACY AND REGULATION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Examination of the nature and meaning of bureaucracy in contemporary American society, its relationship to the private sector, and the devices for its evaluation and control.</td>
<td></td>
</tr>
<tr>
<td>POL 310</td>
<td>POLITICAL PARTIES, CAMPAIGNS, AND ELECTIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of the history, nature, and function of political parties and their role in the political system in both a domestic and comparative context.</td>
<td></td>
</tr>
<tr>
<td>POL 311</td>
<td>PUBLIC OPINION AND POLITICAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The formation, maintenance, change, and impact of public opinion on the American political system; the role of theory and analysis of data in understanding public and political behavior.</td>
<td></td>
</tr>
<tr>
<td>POL 313</td>
<td>THE AMERICAN PRESIDENCY</td>
<td>3</td>
</tr>
</tbody>
</table>
Study of the American presidency, the development of presidential powers, and its leadership role in the political system.

POL 314  INTEREST GROUP POLITICS
Exploration of the role of interest groups in the American political system through an examination of their internal organization and their roles in the electoral and policy making processes at the national, state and local levels. **Prerequisite(s):** POL 201.

POL 317  DEVELOPMENT OF POLITICAL THEORY
Analysis of selected theorists and political doctrines forming the tradition of Western thought on politics. Theorists including Plato, Aristotle, the Stoics, Augustine, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Mill, Marx, Spencer, Lenin, Gasset, and Camus presented in their historical and socio-political contexts.

POL 318  PUBLIC INTERGRITY AND POLITICAL LEADERSHIP
Analysis of contemporary leadership issues related to integrity and values in political office-holding, public service, and global governance contexts. **Prerequisite(s):** CMM 201 or (POL 201 or 202 or 214) or permission of instructor.

POL 320  COMPARATIVE POLITICS: WESTERN EUROPE
Analysis of governmental institutions and political processes of Western Europe

POL 321  COMPARATIVE POLITICS: RUSSIA AND THE NEW STATES
Analysis of governmental institutions and political processes of Russia and the New States

POL 322  COMPARATIVE POLITICS: LATIN AMERICAN
Analysis of governmental institutions and political processes of Latin America

POL 331  NATIONALISM AND ETHNOPOLITICS
An analysis of the politics of nationalism and ethnicity and their impact on social justice. Diverse case studies (US, Russia, Northern Ireland, Israeli-Palestinian) and institutions (European Community, United Nations) will be explored.

POL 333  POLITICS OF HUMAN RIGHTS
Examines the evolution of international human rights norms and the creation of the institutions for the protection and promotion of human rights, and case material relating to each category of internationally recognized human rights.

POL 335  UNITED STATES NATIONAL SECURITY POLICY
Analysis of various political, economic, and military issues and problems relating to U.S. national security.

POL 350  LEGISLATIVE POLITICS
Study of the U.S. Congress, its organization and procedures, and its powers and influence in the political system.

POL 360  URBAN POLITICS AND POLICY
Study of the nature of urban political systems in the U.S. with emphasis on explanation of differences in their policy responses.

POL 371  ENVIRONMENTAL POLICY
Examination of environmental public policymaking and implementation in the U.S. and in the international arena. Analysis of domestic and international government responses to specific environmental issues.

POL 404  UNITED STATES-LATIN AMERICAN RELATIONS
This course examines the foreign relations of the United States with other countries of the Western hemisphere. Political, economic and security issues are examined from both theoretical and historical perspectives. **Prerequisite(s):** POL 201 or 214 or permission.

POL 406  INTERNATIONAL LAW AND ORGANIZATION
Study of rules governing the community of nations; their nature, sources, and development; the international agencies responsible for their development, interpretation, and administration.

**Prerequisite(s):** POL 214 or permission.

**POL 408 AMERICAN FOREIGN POLICY**

Critical study of the American foreign policy process and evaluation of the sources of American foreign policy.

**Prerequisite(s):** (POL 201, 214) or permission.

**POL 409 RUSSIAN FOREIGN POLICY**

Analysis of the internal and external factors shaping the foreign policies of Russia and the independent republics.

**POL 410 COMPARATIVE FOREIGN POLICY**

Comparative analysis of the foreign policies of major states with emphasis on the process of policy development and on the national and international determinants of policy behaviors.

**Prerequisite(s):** POL 202 or 214 or permission.

**POL 411 CONSTITUTIONAL LAW**

Analysis of the role of the U.S. Supreme Court in its interpretation of the Constitution. Emphasis on the various methods of judicial interpretation as they affect such provisions as the commerce clause, the taxing and spending powers, due process, the dimensions of presidential and congressional authority, and the doctrine of judicial review.

**Prerequisite(s):** POL 301 or permission.

**POL 413 THE POLITICS OF BUREAUCRACY AND REGULATION**

Examination of the nature and meaning of bureaucracy in contemporary American society and the devices for its evaluation and control.

**POL 421 SEMINAR IN POLITICAL SCIENCE**

Seminar on current problems and issues in political science. May be taken more than once when content changes. Prerequisite: Must be POL major and have completed POL core courses.

**POL 426 LEADERSHIP IN BUILDING COMMUNITIES**

Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools.

**POL 431 INDEPENDENT STUDY AND RESEARCH**

Individual reading and research on selected topics under faculty direction. Recommended for seniors only.

**Prerequisite(s):** Permission of instructor and chairperson.

**POL 450 CIVIL LIBERTIES**

Analytical examination of civil liberties in the U.S. with emphasis on the Supreme Court as arbiter in the endless conflict between the demand for individual liberty and the needs of constitutional authority.

**Prerequisite(s):** POL 301 or 411 or permission of instructor.

**POL 452 POLITICAL VIOLENCE**

Consideration of theoretical approaches to understanding violent change in political institutions; the continuum between violence and nonviolence; revolution, revolt, campus dissent, and political assassination.

**Prerequisite(s):** POL 202 or 333 or permission of instructor.

**POL 475 AMERICAN POLITICAL THOUGHT**

Ideas that have shaped the American political system: Puritanism, the American Revolution, Hamiltonianism, Jeffersonianism, racism, nativism, social Darwinism, the New Deal, and contemporary liberal and conservatism.

**Prerequisite(s):** (POL 201, 317) or permission of instructor.

**POL 477 HONORS THESIS PROJECT**
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approval of the University Honors Program.

POL 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approved 477 and approval of University Honors Program.

POL 479 SELECTED TOPICS IN PUBLIC POLICY
Intensive examination of policy process, outcomes, and impact in an area or areas of American public policy selected by the instructor; such topics as transportation, education, welfare, national defense, urban and community development, civil rights, and science and technology. May be repeated once when topic changes.

POL 495 INTERNSHIP
Supervised experience in government agencies and programs. Prelaw students are assigned to law firms and judicial chambers. Prerequisite: Permission of supervising professor.

POL 497 SERVICE LEARNING EXPERIENCE
Supervised community research or service experience that complements a specific upper division course in Political Science. Repeatable up to three semester hours. No more than 3 semester hours of Social Science 497 credits can count toward graduation.

Prerequisite(s): Permission of instructor.
Corequisite(s): A 300-400 Political Science course.
College of Arts and Sciences

(PLW) Prelaw (Collapse Description)

At the University of Dayton, any student, regardless of major, thinking about attending law school should join the Prelaw Program. The program provides students with the guidance and academic assistance necessary to prepare them for success in the study of law. Because law schools seek students with a broad, liberal arts education and discourage students from having a vocationally-oriented "prelaw" major, prelaw students at the University of Dayton select undergraduate majors based on their interests and aptitudes. They select these majors either as incoming first-year students or, with the aid of their prelaw advisors, later in their college career. However, in order to receive adequate counseling, all students thinking about postgraduate work in law should declare their prelaw intentions to the prelaw office as early as possible. This enables them to take full advantage of all the counseling, advising, and preparatory services provided by the Prelaw Program.

In addition to courses in their majors, prelaw students select courses that help develop analytical skills and academic abilities necessary for success in law school and careers in law. While no prelaw course of study is perfect for all students, particular courses taken in conjunction with a traditional academic major provide the prelaw student with an excellent academic preparation for legal study. Students take courses which emphasize the following:

1. Skill in the analysis and synthesis of ideas. Courses in such disciplines as history, literature, mathematics, philosophy, and the sciences develop critical, analytical thinking.
2. Proficiency in communicating ideas effectively and clearly. Courses in such areas as composition theory and process, in exposition and argumentation, in persuasion, and in the techniques and uses of research aid in the development of this ability.
3. Comprehension of the basic principles of the American political and legal system, including their origins and functions. Courses in British and American history, political science, and criminal justice promote an understanding of these concepts.
4. A critical examination of the ethical issues in the law and the legal profession. Courses in philosophy and religious studies form a basis for such an examination.
5. An understanding of the basic principles of economics and accounting.

Members of the Prelaw Committee help students develop an appropriate course of study based on their interests, aptitudes and goals. In addition, they provide students with information about law school recruitment, financial aid, the Law School Admission Test (LSAT), and the writing of applications and securing of recommendations. The Prelaw Program also sponsors LSAT preparation workshops, a prelaw internship for which students receive course credit while working in an attorney's office, and mock trial competition. A chapter of Phi Alpha Delta, a national law fraternity, is active on campus.

Prelaw Committee

R. Alan Kimbrough (English), Director
Becker (Sociology), Biers (Psychology), Flockerzie (History), Frasca (Economics, Business Administration), Herreiko (School of Engineering), Huff (College of Arts and Sciences), Ingram (Criminal Justice, Political Science), Payne (Philosophy) H. Pestello (Sociology), Pierce (Political Science), Russo (School of Education)

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLW 301</td>
<td>MOCK TRIAL I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Practice and performance of attorney and witness roles for Mock Trial National Competition case. Repeatable up to 4 semester hours.</td>
<td></td>
</tr>
<tr>
<td>PLW 302</td>
<td>MOCK TRIAL II</td>
<td>1</td>
</tr>
</tbody>
</table>
Practice and performance of attorney and witness roles for Mock Trial Regional and National Competitions. Repeatable up to 4 semester hours.

Prerequisite(s): PLW 301; invitation by mock trial coaches.
The Bachelor of Science with a major in premedicine (MED) or predentistry (DEN) is an interdisciplinary curriculum of study. It is distinctively designed to provide a science-based, diverse education as a preparation for admission to any of the allied health care professional schools including medical, dental, veterinary, and chiropractic. Courses in biology, chemistry, mathematics, and physics comprise the science core of the major. A substantial complement of humanities and social sciences courses are also required. Within this framework the curriculum is flexible and can be tailored to suit personal interests. During the first two years, students enroll in courses appropriate for entry into professional schools while they also fulfill basic University requirements.

Admission to professional schools depends upon many factors in addition to the curriculum or major. Academic standing, performance on standardized examinations, practical experience relevant to the profession of interest, and adherence to application procedures are all important. The Premedical Programs Office addresses these factors through a comprehensive approach to pre-health care education.

Along with the administration of the DEN and MED majors, the Premedical Programs office acts as the focal point for all matters related to admission to any allied health care professional school. It is an information clearing house, functions as a liaison with professional schools, and coordinates the application process. Students in any major planning to apply to professional schools are urged to maintain a close relationship with this office.

The University automatically enrolls entering premedical or predental majors into special orientation classes, and identifies them to the Premedical Programs office. Members of the Premedical/Predental Advisory Committee advise these students. However, advising services are available to all pre-professional students regardless of their major. Students in other majors may elect to have committee members serve as their secondary advisors; such students should identify themselves to the Premedical Programs office.

In addition to providing counseling, Premedical Programs offers a seminar series, joint programs with medical schools, grants health care related experiences, and scholarships. Since admission to professional schools is highly selective, the program monitors the academic progress of MED/DEN majors, and provides feedback at the end of the first and second year. Transfers to other majors, particularly to science majors, can usually be accommodated during the first two years without affecting normal progress towards graduation.

Premedical/Predental Advisory Committee

John E. Erdei, (Physics) Director
Brecha (Physics), Berney (Physics), Church (Chemistry), Craver (Physics), Hofmann (Biology), Kears (Biology), Krane (Biology), Lysaught (Religious Studies), Neilsen (Biology), Singer (Chemistry), S. Wright (Biology)

Majors/Minors (Collapse All)

Bachelor of Science in Predentistry (DEN)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predentistry</td>
<td>45-50</td>
</tr>
</tbody>
</table>

Required Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151-151L, 152-152L</td>
<td>8</td>
</tr>
<tr>
<td>MTH ((148 &amp; 149) or (188 &amp; 189))</td>
<td>6-8</td>
</tr>
<tr>
<td>PHY ((201 &amp; 202) or (206 &amp; 207 &amp; 208)), 201L², 202L²</td>
<td>8-11</td>
</tr>
<tr>
<td>- - - (CPS 111 or MTH 367)</td>
<td>3</td>
</tr>
<tr>
<td>Science electives³</td>
<td>17</td>
</tr>
</tbody>
</table>

³ Students in other majors may elect to have committee members serve as their secondary advisors; such students should identify themselves to the Premedical Programs office.
General electives\(^5\) 12-18

Breadth Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social and Behavioral Sciences</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Humanities(^6)</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy and Religious Studies(^7)</td>
<td>12</td>
</tr>
<tr>
<td>Arts Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Communication Competencies

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG elective(^8)</td>
<td>9-12</td>
</tr>
</tbody>
</table>

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120-134

\(^1\) Students with a weak background should take MTH 137 and 138, followed by MTH 148. Well qualified students are advised to take MTH 168-169.

\(^2\) Well qualified students are strongly advised to take PHY 206-207-208 lecture sequence with PHY 201L and 202L.

\(^3\) Five lecture courses that must be selected from among mathematics, the natural sciences and/or engineering. The elective courses must be directly related to the primary field of interest. Laboratory sections must accompany two of the electives.

\(^4\) Only general elective courses can be taken under grading Option 2.

\(^5\) Courses in graphic design, studio art, or performing arts are recommended.

\(^6\) A modern foreign language is strongly recommended.

\(^7\) One PHL or REL elective must be an ethics course. Select PHL 312, 315; REL 265, 367.

\(^8\) Select ENG elective from among ENG 203, 204, 205, 272, 316, or any 300-level General Education ENG elective. ENG 376, when content is Medical Writing, is recommended.

Bachelor of Science in Premedicine (MED)

\[\text{Sem. Hrs.}\]

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premedicine</td>
<td>45-50</td>
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</tbody>
</table>

Required Science Courses

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<th>Sem. Hrs.</th>
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<tr>
<td>BIO 151-151L, 152-152L</td>
<td>8</td>
</tr>
<tr>
<td>MTH ((148 &amp; 149) or (168 &amp; 169))(^1)</td>
<td>6-8</td>
</tr>
<tr>
<td>PHY ((201(^2) &amp; 202) or (206 &amp; 207 &amp; 208)), 201L(^2), 202L</td>
<td>8-11</td>
</tr>
<tr>
<td>- - - (CPS 111 or MTH 367)</td>
<td>3</td>
</tr>
</tbody>
</table>

Science electives\(^3\) 17

General electives\(^4\) 12-18

Breadth Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
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<td>Philosophy and Religious Studies(^6)</td>
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<td>Arts Study</td>
<td>3</td>
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</table>

Communication Competencies

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<th>Requirement</th>
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<tr>
<td>ENG elective(^7)</td>
<td>9-12</td>
</tr>
</tbody>
</table>

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120-134

\(^1\) Students with a weak background should take MTH 137 and 138, followed by MTH 148. Well qualified students are advised to take MTH 168-169.

\(^2\) Well qualified students are strongly advised to take PHY 206-207-208 lecture sequence with PHY 201L and 202L.
Five lecture courses that must be selected from among mathematics, the natural sciences and/or engineering. The elective courses must be directly related to the primary field of interest. Laboratory sections must accompany two of the electives.

Only general elective courses can be taken under grading Option 2.

A modern foreign language is strongly recommended.

One PHL or REL elective must be an ethics course. Select from among PHL 312, 315; REL 360, 367.

Select ENG elective from among ENG 203, 204, 205, 272, 316, or any 300-level General Education ENG elective. ENG 376, when content is Medical Writing, is recommended.
College of Arts and Sciences

(PSY) Psychology (Collapse Description)

Psychology is the scientific study of behavior, and as such is a diverse field that touches all aspects of human endeavor.

The objectives of the Department of Psychology are to provide students with learning experiences in and out of the classroom which will increase their critical thinking skills, facilitate their acquisition of the body of knowledge inherent in the study of human behavior, equip them with its research methodology, and prepare them for employment or graduate school.

The Department of Psychology offers both the Bachelor of Arts and the Bachelor of Science degrees. Each student, in consultation with an advisor, selects a program leading to either a Bachelor of Arts or a Bachelor of Science with appropriate elective credits according to individual interests and goals. The availability of both degrees allows the student to plan a double major or a major in psychology with a strong concentration of study in a related or complementary discipline. It also allows for easy transfer into psychology from prior majors. The department encourages students who are interested in preparation for graduate school or a career in a particular area of psychology to consult the Psychology Undergraduate Student Handbook, available on the World Wide Web, for a listing of courses that are recommended for preparation in that area. Some examples of such areas include clinical psychology, developmental psychology, human factors/ergonomics, and social psychology.

Each psychology major must complete PSY 101, 216, and 217 early in his or her academic career. The remaining requirements are stated in the two outlines below. Exceptions to these requirements must be approved by the chairperson.

Psychology majors are required to attain grades of C- or better in the following courses: PSY 101, 216, 217, and any two courses from each of the two core groupings (PSY 321, 322, 323, 422) (PSY 341, 351, 361, 363). If a C- or better is not attained, courses will have to be retaken if they are used to satisfy the psychology major.

A minor in psychology consists of eighteen semester hours.

Faculty

David W. Biers, Chairperson
Professors Emeriti: Alik, DaPolito, Kuntz
Professors: Butter, Eggemeier, Kimble, Polzella
Associate Professors: Biers, Bower, Elvers, Katsuyama, Korte, Moroney, Reeb, Roeker-Phelps
Assistant Professors: Crutcher, Davis, Goddie, Lutz, Rye
Visiting Assistant Professors: Cahoon, Swierenga
Adjunct Faculty: Martin, Ramsey, Szoke, Tedesco, Zink

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Psychology (PSY)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Psychology</strong></td>
<td>34</td>
</tr>
<tr>
<td>PSY 101, 216, 217</td>
<td>10</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
<td></td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 341, 351, 361, 363</td>
<td></td>
</tr>
<tr>
<td>Psychology electives*</td>
<td>12-23</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum 53-59

Humanities and Fine Arts
Literature: English or Foreign Language 3
History 6
Literature: English or foreign language 3
Creative and Performing Arts 3
Foreign Language and/or Arts and/or Humanities 3-9
Social Sciences (excludes PSY courses) 12
Mathematics 3
MTH 114, 116, 128, 129, 137, 138, 148, 149, 168, 169
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1May substitute MTH 207 for PSY 216, but the MTH course does not count toward the thirty-four credit hours required in PSY for the major.
2No more than a total of six hours of PSY 490, 493, 494 and/or 497 may count toward the thirty-four credit hours required in PSY for the major.

Bachelor of Science with a major in Psychology (PSS)

<table>
<thead>
<tr>
<th>Psychology</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101, 216, 217</td>
<td>10</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
<td></td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 341, 351, 361, 363</td>
<td></td>
</tr>
<tr>
<td>PSY electives 2</td>
<td>12-23</td>
</tr>
</tbody>
</table>

Breadth Requirement

| Natural Sciences 3 | 24 |
| Mathematics, Computer Science | 6 |
| MTH 148, 149 4 | |
| Humanities | 9 |
| Social and Behavioral Sciences | 6 |
| Philosophy and Religious Studies | 12 |

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

1May substitute MTH 207 for PSY 216, but the MTH course does not count toward the thirty-four credit hours required in PSY for the major.
2No more than a total of six hours of PSY 490, 493, 494, and/or 497 may count toward the thirty-four credit hours required in PSY for the major.
3Two 3-semester hour natural science courses (BIO, CHM, GEO, PHY) with accompanying laboratory hours are required. The remaining 16 semester hours may be fulfilled by courses in BIO, CHM, GEO, PHY and CPS courses as well as by MTH courses beyond the departmental MTH requirement.
4May substitute MTH 116, 128, 129, 137, 138, 168, or 169 for MTH 148 or 149.

Minor in Psychology (PSY)

<table>
<thead>
<tr>
<th>Psychology</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
</tbody>
</table>
PSY 341, 351, 361, 363
Select nine additional semester hours (300- or 400-level)\(^1\)

\(^1\)Only 3 hours of PSY 490, 493, 494, and/or 497 may count toward the minor.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>INTRODUCTORY PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of human behavior including development, motivation, emotion, personality, learning, perception; general application of psychological principles to personal, social, and industrial problems. Students must participate in departmental research.</td>
<td></td>
</tr>
<tr>
<td>PSY 216</td>
<td>ELEMENTARY STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic probability and applied statistics: measures of central tendency and dispersion, sampling, estimation, hypothesis testing, tests between means, linear regression, correlation, and ANOVA.</td>
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<tr>
<td></td>
<td>Prerequisite(s): MTH 102 or higher; PSY 101.</td>
<td></td>
</tr>
<tr>
<td>PSY 217</td>
<td>EXPERIMENTAL PSYCHOLOGY</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Basic concepts of scientific methods as applied to psychological problems. Experiments to familiarize students with application of scientific methodology to study of human psychological processes. Required of all psychology majors.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): PSY 101, 216.</td>
<td></td>
</tr>
<tr>
<td>PSY 251</td>
<td>HUMAN GROWTH AND DEVELOPMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Focuses on stages of human development from infancy through the aging adult. Emphasis is on various theoretical approaches and the development associated with each stage. Psychology majors may not take for credit toward major.</td>
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<tr>
<td></td>
<td>Prerequisite(s): PSY 101.</td>
<td></td>
</tr>
<tr>
<td>PSY 321</td>
<td>COGNITIVE PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Information-processing approach to attention, perception, memory, imagery, and thought. Theoretical structures including neuron modeling of higher cognitive and experimental processes.</td>
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<tr>
<td></td>
<td>Prerequisite(s): PSY 101.</td>
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<tr>
<td>PSY 321L</td>
<td>COGNITIVE PROCESSES LABORATORY</td>
<td>1</td>
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<tr>
<td></td>
<td>In-depth discussion of seminal research in cognition. Collection, analysis, and interpretation of data.</td>
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<tr>
<td></td>
<td>Prerequisite(s): (PSY 101, 216, 217, 321) or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>PSY 322</td>
<td>LEARNING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foundations of the learning process. Classical and instrumental paradigms and variants of each considered in preparation for investigations of complex learning.</td>
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<tr>
<td></td>
<td>Prerequisite(s): PSY 101.</td>
<td></td>
</tr>
<tr>
<td>PSY 323</td>
<td>PSYCHOLOGY OF PERCEPTION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to major theoretical and experimental work in perception, including visual, auditory, proprioceptive, and other sensory systems.</td>
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</tr>
<tr>
<td></td>
<td>Prerequisite(s): PSY 101.</td>
<td></td>
</tr>
<tr>
<td>PSY 333</td>
<td>PSYCHOLOGICAL TESTS AND MEASUREMENTS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of major tests of intelligence, aptitude, interest, and personality presently used in clinics, schools, personnel offices, and research settings. Emphasis on evaluation and comparison, rationale of construction, ethical considerations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): PSY 101, 216 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>PSY 334</td>
<td>INDUSTRIAL PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to modern efforts to improve human performance in industrial organizations and society; selection and placement of employees, morale, training, and incentives.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): PSY 101.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
</tr>
<tr>
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</tr>
<tr>
<td>PSY 341</td>
<td>SOCIAL PSYCHOLOGY</td>
<td>Survey of major theoretical and experimental work in the field; attitudes, conformity, emotions, group dynamics.</td>
</tr>
<tr>
<td>PSY 344</td>
<td>INTERPERSONAL RELATIONS</td>
<td>Social psychological research in nonverbal behavior, social exchange, self-disclosure, and interpersonal attraction and how these are related to developing relationships.</td>
</tr>
<tr>
<td>PSY 351</td>
<td>CHILD PSYCHOLOGY</td>
<td>Study of psychological processes from the developmental point of view; changes in perception, cognition, emotion, and social behavior from infancy to adolescence.</td>
</tr>
<tr>
<td>PSY 352</td>
<td>FIELD EXPERIENCE IN CHILD PSYCHOLOGY</td>
<td>Practical experience with a community agency providing instructional, recreational, or therapeutic services. Volunteer 4-5 hours weekly.</td>
</tr>
<tr>
<td>PSY 353</td>
<td>THE PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING</td>
<td>Provides a general introduction to the multi-disciplinary field of adulthood and aging with a specific focus on aspects of interest to psychologists: cognitive, intellectual, personality, and biological changes across adult development.</td>
</tr>
<tr>
<td>PSY 355</td>
<td>DEVELOPMENTAL PSYCHOPATHOLOGY</td>
<td>Survey of developmental theory and research related to the psychopathology of infants, children, and adolescents. Focus is on etiology, identification, and intervention.</td>
</tr>
<tr>
<td>PSY 361</td>
<td>PERSONALITY</td>
<td>Introduction to the study of personality through analysis of such major theories as those of Freud, Skinner, Maslow, and Rogers. The development of personality and the stability of personality characteristics over time.</td>
</tr>
<tr>
<td>PSY 363</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td>Patterns of disordered behavior; social, psychological, and physiological factors; theoretical explanations of abnormal behavior.</td>
</tr>
<tr>
<td>PSY 364</td>
<td>PSYCHOTHERAPY</td>
<td>Survey of current types of psychotherapy. Emphasis on similarities and differences in underlying theories of behavioral change and associated techniques.</td>
</tr>
<tr>
<td>PSY 366</td>
<td>HEALTH PSYCHOLOGY</td>
<td>Explores psychological research, theory, and techniques in health-related areas, such as health promotion, the identification of contributors to illness, illness prevention, stress and coping, stress management, changing health beliefs and behavior, pain and its management, and the management of chronic and terminal illnesses.</td>
</tr>
<tr>
<td>PSY 375</td>
<td>PSYCHOLOGY OF THE ARTS</td>
<td>Explores the psychological experiences associated with the creation and appreciation of music, art, and literature. Course content is presented in terms of the theories, methods, and research findings in the fields of perception, cognition, and development.</td>
</tr>
<tr>
<td>PSY 410</td>
<td>QUESTIONNAIRE DESIGN</td>
<td>Students will learn about critical issues in questionnaire design and use, the advantages/disadvantages of questionnaires, types of questionnaires, questionnaire development strategies, scale selection, and how to evaluate</td>
</tr>
</tbody>
</table>
questionnaires. Students will develop, test and evaluate a questionnaire in a domain of interest to them. Depending on the size of the effort, students may work in teams.

**PSY 422  PHYSIOLOGICAL PSYCHOLOGY**
Neuropsychological analysis of attention, sensation, perception, emotion, motivation, and learning. Electrophysiological methods are discussed. 
*Prerequisite(s):* PSY 101.

**PSY 431  INTERVIEWING AND COUNSELING**
Integrated approach to the theory, techniques, skills, and values of interviewing and counseling. Practice through written assignments, self study, classroom exercises, and role-playing. 
*Prerequisite(s):* PSY 101.

**PSY 435  HUMAN FACTORS**
Essential psychological concepts and methods to improve use of human efforts and equipment. Principles governing design of equipment for human use. 
*Prerequisite(s):* PSY 101.

**PSY 443  PSYCHOLOGY OF WOMEN**
Survey of topics related to the psychology of women, such as gender identity and roles, theories of female development, relationships, achievement, language, health issues, spirituality, sexuality, and violence. 
*Prerequisite(s):* PSY 101.

**PSY 444  ENVIRONMENTAL PSYCHOLOGY**
Study of the effects of the physical and social environment on human behaviors, attitudes, and affective responses. 
*Prerequisite(s):* (PSY 101, 341) or permission of instructor.

**PSY 445  TECHNOLOGY, ENVIRONMENT, AND BEHAVIOR**
Examines the cultural bases for the individual and societal choices which humans make about their use of technology. Technology is broadly defined to include human-machine systems.

**PSY 450  PSYCHOLOGY FOR MINISTRY**
Human development and adjustment, interpersonal communication, and the psychology of religion. Acceptance into the Lay Ministry Program or permission of instructor. 
*Prerequisite(s):* Acceptance into the Lay Ministry Program or permission of instructor.

**PSY 451  PSYCHOLOGY OF RELIGION**
Addresses the psychological study of the nature of religion and religious experience; explores the development of internalized beliefs, attitudes, and values and the effect they have on individual functioning. An introductory course in psychology is highly recommended. 
*Prerequisite(s):* Junior or senior standing.

**PSY 452  COGNITIVE DEVELOPMENT IN CHILDREN**
Major approaches to the study of cognitive development; attentional and mediational development in children's learning, memory, and problem solving; language development and Piaget's theory. 
*Prerequisite(s):* (PSY 101, 351) or permission of instructor.

**PSY 457  TELEVISION AND ITS EFFECTS ON CHILDREN**
Readings in psychological research on the broad effects of television on children. Emphasis on analyzing and evaluating the research. 
*Prerequisite(s):* PSY 101.

**PSY 461  CURRENT IMPLICATIONS OF DRUG DEPENDENCY**
Survey of effects, symptoms, treatment, causalties, and myths associated with drug use and abuse. Emphasis on existing treatment methods and psychological implications of drug dependency. 
*Prerequisite(s):* PSY 101.

**PSY 462  HUMAN SEXUALITY**
Psychological factors in human sexuality including developmental, biological, and social perspectives. Such topics as sexual orientation, gender identity and roles, sexual relationships, sexual dysfunction, power and violence, and commercialization.

**PSY 471** HISTORY OF PSYCHOLOGY  
The evolution of psychology from its origins in philosophy, science, clinical, and applied settings. Emphasis on integrating these systems and schools of thought with modern psychology. **Prerequisite(s):** PSY 101 or permission of instructor.

**PSY 477** HONORS THESIS PROJECT  
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. **Prerequisite(s):** Approval of the University Honors Program.

**PSY 478** HONORS THESIS PROJECT  
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons. **Prerequisite(s):** Approved 477 and approval of University Honors Program.

**PSY 490** INTERNSHIP IN PSYCHOLOGY  
1-6  
Supervised experience arranged on an individual basis in appropriate settings. For Jr/Sr psychology majors who have completed prescribed course work only. Consult internship director for details. May be repeated for up to 6 sem. hrs. Grade Option 2 Only.

**PSY 493** INDEPENDENT STUDY  
1-6  
Problems of special interest investigated under faculty direction. Area and criteria for evaluation to be specified prior to registration. May be repeated for up to 6 sem. hrs. **Prerequisite(s):** Permission of instructor.

**PSY 494** READINGS IN PSYCHOLOGY  
1-6  
Directed reading in a specific area of interest, under faculty supervision. Topic and criteria for evaluation to be specified prior to registration. May be repeated for up to 6 sem. hrs. **Prerequisite(s):** Permission of instructor.

**PSY 495** SPECIAL TOPICS IN PSYCHOLOGY  
1-3  
Topics of special interest to faculty and students; intensive critical evaluation of appropriate literature. **Prerequisite(s):** Permission of instructor.

**PSY 497** SERVICE LEARNING EXPERIENCE  
1  
Supervised community research or service experience that complements a specific upper division course in Psychology. Repeatable up to three semester hours. **Corequisite(s):** A 300-400 Psychology course.
College of Arts and Sciences
(REL) Religious Studies (Collapse Description)
The Department of Religious Studies sees itself as a community of scholars serving the University community and the local community by teaching, research, criticism, and action. The main concern of the department is an understanding and elucidation of the Judaeo-Christian religious experience as it is exemplified in the Roman Catholic tradition. This implies not only a deep investigation of the Roman Catholic position but also a dialogue with other Christian denominations and with other world religious.

Students majoring in religious studies ordinarily follow one of five tracks in the major. Students preparing for ministry in a Christian church (e.g., pastoral associates, youth ministry, parish religious educators) follow the "Ministry" track. Students preparing to teach religion in elementary or secondary schools follow the "Catholic Schools" track. Students preparing for graduate study in Christian theology, systematics, church history, ethics, etc., follow the "Graduate School Preparation" track. Students preparing for graduate study of religions other than Christianity and/or interested in world religions follow the "World Religions" track. Students wishing to study religion as a way of broadening their horizons or who are interested in religious studies as an undergraduate major follow the "General" track. All religious studies majors must show basic practical communicative proficiency in one foreign language.

A minor in religious studies consists of eighteen semester hours.

Faculty
Sandra Yocum Mize, Chairperson
Distinguished Service Professor: Kohnescher
Distinguished Teaching Professor: Burns
Professors Emeriti: Anderson, Buby, Friedland, Hater
Professors: Barnes, Branick, Doyle, Herf, Portier, Roberts, T. Tilley, Zukowski
Associate Professors: Lyssaugt, Martin, M. Tilley, Thimmes, Yocum Mize
Assistant Professors: Johnson, Kozar, Kallenber, McGrath, Moore, Smith

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Arts with a major in Religious Studies (REL)

Sem. Hrs.
Religious Studies 36
REL (103 or 198) 3
At least nine semester hours (400-level, includes REL 490) 9

Tracks
Ministry 30
REL 315, (323 or 324), 360, 437, 440, 443, 485 21
Select one course in Old Testament; one course in world religions; one course in religion and culture 9

Catholic Schools 30
REL (323 or 324), (327 or 328 or 329), 360, (383 or 487) 12
Select one course in Old Testament; one course in New Testament; two courses in systematic theology; one course in world religions; one course in religion and culture 18

Graduate School Preparation 30
REL 323, 324, 437, (440 or 443) 12
Select one course in Old Testament; one course in New Testament; one course in ethics; one course in world religions;
one course in religion and culture; one additional course in systematic theology

World Religions
REL (323 or 324) 3
Select three courses from:
Select one course in Old Testament; one course in New Testament; one course in ethics; one course in systematic theology; one course in religion and culture
REL elective 3

General
Select one course in Old Testament; one course in New Testament; one course in world religions; one course in church history; one course in systematic theology; one course in ethics; one course in religion and culture
Religious Studies electives 9

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy 9
History 6
Language: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1Or equivalent course.
2Basic proficiency in a foreign language may require additional elective hrs. in lang/humanities/arts. Students who demonstrate basic practical communicative proficiency in a foreign language without taking College courses in language must complete an additional three semester hours of elective courses from a foreign language and/or arts and/or humanities.

Minor in Religious Studies (REL)

Religious Studies
Select eighteen semester hours 1

1At least 3 semester hours are to be at the 400-level.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Examination of the nature of religion, comparative aspect of religion, and the function of religion as a source of interpretation of life. The &quot;Catholic Option&quot; takes the majority of its perspectives and examples about religious beliefs and practices from the Roman Catholic tradition. The &quot;Scripture Option&quot; takes the majority of its perspectives and examples about religious beliefs and practices from scriptural traditions.</td>
<td></td>
</tr>
<tr>
<td>REL 196</td>
<td>RELIGIOUS STUDIES SCHOLARS' SEMINAR</td>
<td>3</td>
</tr>
</tbody>
</table>
Study and seminar discussion of major types of religions in history and some of their practices, values, beliefs, historical development, and theological reflection, including Catholic tradition; review of major theories on the nature, origin, and function of religion in human life. Open by permission only to first-year students in the Berry Scholars Program.

REL 300  SELECTED RELIGIONS OF THE EAST 3
Introduction to several major religious traditions which originated in the East, including Hinduism, Buddhism, Jainism, Taoism, and Confucianism.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 304  HINDUISM 3
Study of the world's oldest living religion. Examines the historical development of major Hindu teachings, texts, practices and paths from ancient times to present, including forms of Hinduism taking root in the West today.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 305  EASTERN ORTHODOXY 3
Exploration of the history and theology of the Eastern Orthodox Church, from the Apostles to Byzantium to Russia and the United States.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 306  BUDDHISM 3
Exploration of the 2,500-year-old Buddhist tradition-the life of its founder, development of its teachings, rituals, and meditation techniques. Survey of the spread of Buddhism to the West in the 20th century. Parallels and contrasts with the Christian tradition.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 307  JUDAISM 3
Basic introduction to Judaism: its history, its faith, its worship.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 308  ISLAM 3
Exploration of the Islamic religious traditions: the life of Islam's founder, the development of its teaching and ritual, its spread from North Africa into Europe, Asia, Oceania, its influence on culture and its contemporary resurgence.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 310  THE PENTATEUCH 3
Examination of the first five books of the Hebrew Bible, known as the Torah or Pentateuch, emphasizing the traditions that relate primeval beginnings, ancestral history, the exodus, wilderness wanderings, and the legal codes.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 311  THE PROPHETS 3
The prophetic texts of the Old Testament studied as reformulations of ancient religious traditions to meet new historical situations. The relevance of the prophets to contemporary life and throughout.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 312  THE PSALMS AND THE WISDOM LITERATURE 3
Critical examination of the biblical books of Psalms, Proverbs, Job, Ecclesiastes, and Ben Sira and of related literature within the historical context in which they arose. The contemporary relevance of this literature.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 315  THE GOSPELS 3
With the Gospel of Mark as a point of departure, comparison of the Markan, Matthean, and Lukan narratives for an understanding of the various conceptions of Jesus found in these Gospels. The course includes historical-critical study of the Gospel to John, its text, literary techniques, structure and theology.
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 316  NEW TESTAMENT THEOLOGIES 3
A survey of New Testament writings with a focus on the religious ideas specific to each; special attention to authors' christology, eschatology, and soteriology; exploration of relevance of the New Testament message to
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 318</td>
<td>STUDIES IN PAUL</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 319</td>
<td>THE BOOK OF REVELATION</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 323</td>
<td>HISTORY OF CHRISTIANITY I (100-1100)</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 324</td>
<td>HISTORY OF CHRISTIANITY II (1100-PRESENT)</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 326</td>
<td>PROTESTANT CHRISTIANITY</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 327</td>
<td>U.S. RELIGIOUS EXPERIENCE</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 328</td>
<td>U.S. CATHOLIC EXPERIENCE</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 329</td>
<td>AFRICAN-AMERICAN RELIGION</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 344</td>
<td>CHRISTIAN MARRIAGE</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
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<td>REL 356</td>
<td>THE CHRISTIAN TRADITION OF PRAYER</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
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<tr>
<td>REL 358</td>
<td>LIBERATION THEOLOGY</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
</tr>
<tr>
<td>REL 360</td>
<td>CHRISTIAN ETHICS</td>
<td>(ASI 111, 112 or equivalent) or REL 103 or 198.</td>
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</tbody>
</table>

Christian faith today.

Detailed examination of the letters of Paul, stressing the historical circumstances affecting their composition as well as the main religious ideas of Paul that govern their content.

Study of important events movements, ideas, and people in the development of Christianity to the year 1100 including the formation of the Canon, early Church councils, Augustine, Gregory the Great, monasticism, the rise of Islam, Eucharistic and other controversies, and the Gregorian Reform.

Study of important events, movements, ideas, and people in the development of Christianity from 1100 to the present, including the separation of the Churches of the East and West, rise of the mendicant orders, Scholasticism, key themes and figures of the Reformation, Vatican I, Modernist crisis, ecumenism, and Vatican II.

Survey of the development of Protestant thought from the Reformation.

A study of a variety of religious traditions in their engagement with and influence within the U.S. social and cultural context including the effects of pluralism, religious liberty, secularization, and consumer capitalism.

The growth and development of Catholic Christianity in the U.S.; its interaction with America, its culture, and its people.

An exploration of the history and theology of African-American religious traditions and how African-American religion has influenced African-American social, political, economic, and cultural movements from the time of slavery to the present.

Analysis of the sanctifying dignity of Christian marriage as a sacrament and commitment to share in the divine creative plan.

Study of several types and forms of Christian prayer from various periods in Church history. The meaning of the act of faith expressed in prayer and its relationship to belief.

A historical-critical analysis and study of the theology of liberation and its specific expression among theologians of the Third World, particularly Latin America.
Introduction to the reflection upon Christian morality; discussion of various approaches in Christian ethics, the elements of ethical judgments, and some specific ethical issues.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 362 CHRISTIAN FAMILY VALUES AND TELEVISION  
Comparative study of the criteria and rationale for family life in various Christian pronouncements with present values and practices in society as reflected in and promoted by current television programming.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 363 FAITH AND JUSTICE  
This course explores the history, development, and basic principles of Catholic social teaching as well as other approaches to faith and justice. Issues of economic justice will receive special emphasis. In addition to church documents, the life and work of religious thinkers and activists will be examined.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 364 CURRENT MORAL ISSUES  
An examination of one or more issues (individual and/or social) in contemporary reflection on Christian moral life. May be repeated when topic changes.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 365 CHRISTIAN ETHICS AND THE ENVIRONMENT  
A Christian ethic of relatedness and responsibility. Explores various approaches and related values found in society; elements of ethical judgments; and specific ethical issues resulting from ecofeminist, technological, and ecological awareness.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 366 THE HOLOCAUST: THEOLOGICAL AND RELIGIOUS RESPONSES  
Examination of the religious and theological literature of the Holocaust, focusing especially on Jewish and Christian responses.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 367 CHRISTIAN ETHICS AND HEALTH CARE ISSUES  
Study of, and reflection upon, the principles of Christian ethics as these relate to the health care professions.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 368 CHRISTIAN ETHICS AND THE BUSINESS WORLD  
Study of, and reflection upon, the principles of Christian ethics as these relate to the business world.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 369 CHRISTIAN ETHICS AND ENGINEERING  
Study in applied Christian ethics addressing the moral issues facing engineers. How to make a moral decision, engineering as a profession, codes of ethics, safety, environmental issues, confidentiality, employee rights, whistleblowing, consulting, conflicts, and career choices.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 372 RELIGION AND FILM  
Study of issues common to narrative films and religious thought; the power of various film techniques, dominant models in religious and film reflection, the similar roles imagination plays in film and religious thought.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 373 RELIGION AND LITERATURE  
Joint study of literature and religion, seeking the sacred in the secular, discussing the doctrines of humans and of God in major modern writings, especially those of current collegiate interest.  
Prerequisite(s): (ASI 111, 112 or equivalent) or REL 103 or 198.

REL 374 RELIGION AND THE ARTS  
Investigation of the religious interpretation of various art forms and the process by which the aesthetic experience assists in theological perception
and construction.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 375 RELIGION AND SCIENCE**

Surveys of the ways science has affected religion on specific doctrines, methods of knowing what is true, and general world views; study of religious response to these.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 376 THEOLOGY AND THE SOCIAL SCIENCES**

Exploration of developments in Christian theology that have paralleled the rise of the human sciences, in particular of concepts of God, humanity, Church, sacraments, sin, and salvation in the light of history, anthropology, psychology, and sociology.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 377 THE INNER JOURNEY IN MYTH, BIBLE, AND LITERATURE**

Study of stories of heroic figures in the Bible and in other literature as patterns of personal and spiritual development. Throughout, efforts to relate the material to the needs of contemporary persons.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 383 PHILOSOPHY OF RELIGIOUS EDUCATION**

An attempt to construct a philosophy of religious education, various contemporary theoretical models, dimensions of teaching religion in a pluralistic society, the polarization generated.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 399 READINGS IN RELIGIOUS STUDIES**

Directed readings in a specific area of interest under the supervision of a staff member. May be taken more than once. By permission only.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 429 MODERN CATHOLICISM**

An examination of Modern Catholicism based on a close study of the context, process, decisions, implementation, and challenges of Vatican II in the Roman Catholic Church.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 437 SIGNIFICANCE OF JESUS**

Emphasis on the identity of Jesus and on the significance that his ministry, death, and resurrection have for the salvation of humankind.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 440 THE CHURCH**

A biblical and theological study of the meaning of the Church which explores the relationship between Christ and the Church, the various models for understanding the Church, and the mission of the Church.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 441 THEOLOGY OF MARY**

Study of the place of the Mother of God in the great truths of faith in the light of chapter eight of the Constitution on the Church.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 442 GOD AND ATHEISM**

Study of some recent contributions made by theology, philosophy, psychology, and the humanities to the current discussion of God's existence, nature, and relationship to humanity.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 443 THE SACRAMENTS**

A study of the meaning of sacramentality. The sacraments in the context of Christ as the sacrament of the human encounter with God and in the context of the Church as the sacrament of Christ.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

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**REL 444 GOD IN CHRISTIAN TRADITION**

A review of theologies of God in Christian tradition, from biblical through contemporary sources, especially as these theologies have affected overall
Catholic thought and spirituality.
**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198; PHL 103.

**REL 446**  
**CHRISTIAN LITURGY**
Study of the basic principles of liturgy, the development of some of the basic forms of liturgy, and applications of the principles within current rites.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 447**  
**SELECTED CATHOLIC DOCTRINES**
Detailed study of several important current theological questions primarily from a Catholic systematic and historical perspective.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 446**  
**LIBERATION THEOLOGY**
A historical-critical analysis and study of the theology of liberation and its specific expression among theologians of the Third World, particularly Latin America.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 471**  
**WOMEN AND RELIGION**
Examination of the impact of the women's movement on Judaism, Christianity, and other major world religions. Survey of traditional religious attitudes toward women. Relevance of feminist approaches to scripture, ethics, spirituality, and ministry in understanding contemporary global issues.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 472**  
**ECOLOGY AND RELIGION**
Examination of the relationship between religion and ecology; bridges the contributions of traditional theological inquiry and modern scientific insights and offers an enlarged vision of ecological concerns.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 474**  
**WOMEN AND THE GLOBAL CHURCH**
An exploration of the intersection between faith communities, traditional and non-traditional, and particular cultures in the lives of contemporary women.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 477**  
**HONORS THESIS PROJECT**
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**REL 478**  
**HONORS THESIS PROJECT**
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**REL 484**  
**PRACTICUM**
Supervised in-service experience in an area of religious education chosen by the student. By permission only.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 485**  
**LAY MINISTRY**
A critical examination of lay ministry and its theological basis, in light of Vatican II and recent trends in the world and Church. Special topics: family ministry, ministry in the marketplace, leadership, evangelization, catechesis, women, social justice.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 487**  
**RELIGIOUS EDUCATION - THEORY AND PRACTICE**
Study of theory and practice of religious education for those who will be teaching religion in the school and parish. Various models and methods. Emphasis on process and religious education as developmental.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 488 SPIRITUALITY AND RELIGIOUS EDUCATION**

Exploration of impact of liturgy and spirituality on contemporary models of religious education; study of interrelationship between faith experience and religious content; basic principles for developing practical programs.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.

**REL 490 CAPSTONE SEMINAR**

Study of a particular topic in religion or theology that draws upon a variety of resources in the fields. This course provides an integrative academic experience. Topic varies from semester to semester. Required of all majors, open to minors. May be repeated.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198; junior or senior standing.

**REL 492 SPECIAL TOPICS**

Concentrated study of issues and subjects pertinent to religion. May be repeated when topic changes.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or REL 103 or 198.
College of Arts and Sciences
(SOC) Sociology, Anthropology and Social Work

(SOC) Sociology, Anthropology and Social Work

(Social Description)

Sociology is the scientific study of society. The unique insight of sociology is that people are who they are largely because of their social experiences and interactions with others. "The sociological imagination" is the ability to understand the relationship between the individual experience and the broader social context. In addition to studying various aspects of social behavior, sociology studies the nature and causes of social problems such as crime, marital instability, poverty, and racism. The challenge facing sociologists is to apply their knowledge in ever more constructive ways for the improvement of society.

Students intending to major or minor in sociology should consult with the department chairperson to plan their programs of courses. Majors may concentrate their studies in the fields of human relations or community relations. The requirements for majoring in sociology are stated in the outline below.

A minor in sociology consists of fifteen semester hours.

Faculty

H. Frances Pestello, Chairperson
Professor Emeritus: Huth
Professors: Curran, Davis-Berman, Donnelly, L. Majka, T. Majka, Miller, F. Pestello, H. Pestello
Associate Professors: Adamitis, Dandaneau
Assistant Professors: Becker, Jipson, Kim, Leming, Talwalker, Thornton
Coordinator for Community Relations for Criminal Justice Studies: Apolito

Majors/Minors

Bachelor of Arts with a major in Sociology (SOC)

**Sociology**

SOC (101 or 204 or 398), 208, 303, 308, 308L, 351, 409
SOC electives

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology</td>
<td>37</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
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<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
<tr>
<td>Communication</td>
<td>0-9</td>
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<tr>
<td>Total</td>
<td>124</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences (excludes SOC courses)</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Communication Competencies</td>
<td>0-9</td>
</tr>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
</tr>
<tr>
<td>General Education courses/academic electives to total at least</td>
<td>124</td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001783&c=-1&p=-1  
7/10/2012
A total of no more than six semester hours of field experience or internship from SOC 495, SOC 497, SWK 401, SWK 497, ANT 449, or ANT 497 may count toward the required thirty-seven semester hours for a sociology major. Up to nine hours total may be taken in anthropology and/or social work for a sociology major. These hours may also be used toward the completion of a minor.

Minor in Anthropology (ANT)

Anthropology is the study of people at all times and places. It emphasizes understanding total cultural systems. A minor in anthropology consists of fifteen semester hours. Students intending to minor in anthropology should consult with the department chairperson to plan their selection of courses.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ANT 150</td>
<td>CULTURAL ANTHROPOLOGY</td>
</tr>
</tbody>
</table>

Select four additional courses (300- or 400-level)

Minor in Social Work (SWK)

Social work is the profession sanctioned by society to provide social services. It is the professional activity of helping individuals, groups, or communities to enhance or restore their capacity for social functioning. The profession also engages in activities aimed at facilitating societal conditions that enhance and/or restore social functioning.

A minor in social work consists of fifteen semester hours.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Code</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>15</td>
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</table>

Select fifteen semester hours

\(^1\)No more than six semester hours of field experience credit can be accepted toward the minor.

\(^2\)At least twelve semester hours at the 300- or 400-level.

Minor in Sociology (SOC)

<table>
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<th>Sem. Hrs.</th>
<th>Code</th>
<th>Title</th>
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<tr>
<td>15</td>
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</table>

Select fifteen semester hours

\(^1\)At least twelve semester hours at the 300- or 400-level.

Courses (Collapse All Courses)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>CULTURAL ANTHROPOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>ANT 300</td>
<td>EVOLUTION OF PEOPLE AND CULTURE</td>
<td>3</td>
</tr>
<tr>
<td>ANT 306</td>
<td>CULTURE AND POWER</td>
<td>3</td>
</tr>
<tr>
<td>ANT 310</td>
<td>CULTURE AND PERSONALITY</td>
<td>3</td>
</tr>
</tbody>
</table>
ANT 315  LANGUAGE AND CULTURE  Introduction to the scientific study of language and its relationship to other aspects of human behavior.

ANT 335  URBAN ANTHROPOLOGY  Survey of anthropology research on urban issues. Considers how cities arose and how urban people make a living, organize, and think. Considers urban futures.

ANT 352  CULTURES OF LATIN AMERICA  Origin and development of ancient civilizations including the Aztec, the Maya, and the Inca. Survey of contemporary cultures, with special emphasis on peasant life.

ANT 360  CULTURES OF SOUTH ASIA  Examination of South Asia through the lens of anthropology. Explores the postcolonial era, South Asia's dynamic religious traditions, the study of caste, "Bollywood" and popular cultures, Hindu nationalism, and the South Asian diaspora in the West.

ANT 368  IMMIGRATION AND IMMIGRANTS  Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. (Same as SOC 368.)  
**Prerequisite(s):** (SOC 101 or 204) or ANT 150.

ANT 392  SPECIAL TOPICS IN ANTHROPOLOGY  Intensive examination of current thematic, theoretical, or methodological issues from the viewpoint of anthropology. May be repeated as topics change.  
**Prerequisite(s):** ANT 150; permission of instructor.

ANT 449  ANTHROPOLOGICAL FIELD WORK  Formulation and carrying out of a research design in archaeology, physical anthropology, linguistics, or cultural anthropology  
**Prerequisite(s):** Permission of instructor.

ANT 497  SERVICE LEARNING EXPERIENCE  Supervised community research or service experience that complements a specific upper division course in Anthropology. Repeatable up to three semester hours.  
**Prerequisite(s):** Permission of instructor.  
**Corequisite(s):** ANT course (300-400-level).

ANT 498  INDEPENDENT STUDY  Research problems or readings of special interest investigated under the guidance of an anthropology staff member.

SOC 101  PRINCIPLES OF SOCIOLOGY  Study of social groups, social processes, and society; the individual's relationship to society, social structure, social inequality, ethnic minorities, cities and human populations, and social institutions such as the family, education, religion, and government.

SOC 204  MODERN SOCIAL PROBLEMS  Course to familiarize nonsociology majors with contemporary problems in society; historical development, current status, and analysis of problems, using modern social theories. Content may vary from section to section.

SOC 204L  URBAN PROBLEMS LABORATORY  Field study of selected urban problems. Focus on issues and problems of inequality, i.e., poverty, unemployment, discrimination, and homelessness as experienced by members of the urban community.  
**Corequisite(s):** SOC 204.

SOC 208  SOCIAL RESEARCH METHODS  Study of the logic of research design, data-gathering strategies, types of measurement, and sampling techniques. Both inductive and deductive
approaches. Participation in research projects.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 303 MODERN SOCIAL THEORY**

Consideration of the works of modern theorists and major trends in the history of social thought.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 305 CRIMINOLOGICAL THEORY**

Study of the major theories of crime; consideration of the implications of theory for the criminal justice system.

**Prerequisite(s):** SOC 101 or SOC 204

**SOC 308 DATA ANALYSIS**

The analysis and interpretation of both quantitative and qualitative social science data.

**Prerequisite(s):** SOC 208.

**Corequisite(s):** SOC 308L.

**SOC 308L DATA ANALYSIS LABORATORY**

Training in appropriate computer programs and computer analysis of social science data.

**Prerequisite(s):** SOC 208.

**Corequisite(s):** SOC 308.

**SOC 309 COMMUNITY PRACTICE AND RESEARCH**

Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system. (Same as SWK 303)

**Prerequisite(s):** SOC 101 or SOC 204 and permission of instructor.

**SOC 321 THE SOCIOLOGY OF WORK AND OCCUPATIONS**

Survey of the major features of work and occupations in industrial society. The meaning of work, occupational choice and recruitment, occupational socialization, career patterns, and occupational rewards. Unemployment, underemployment, sex-typing, automation and alienation.

**SOC 322 SEX ROLES AND SOCIETY**

Research findings and major analytical approaches to study social and cultural influences on the development of personal sexual identity and relationships between men and women. Major social issues concerning human sexuality.

**SOC 323 JUVENILE JUSTICE**

The environmental and internal factors that influence or determine delinquent behavior; roles of individual juvenile offenders, parents or guardians, school, church, police, business community, community agencies, and the juvenile justice and correctional system in preventing and treating delinquent behavior.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 325 DEVIANT BEHAVIOR**

Description of various types of deviant behavior; for example, mental illness, alcoholism, drug addiction, the professional criminal. Study of explanations for the consequences and the role of deviant behavior in modern society.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 326 LAW AND SOCIETY**

Study of the legal system and practices from a sociological point of view; the historical origin and role of the law in society, issues relating to the law as an instrument of social control and/or social change; analysis of the legal profession.

**SOC 327 CRIMINOLOGY**

Social and cultural nature, origin, and development of law; criminal behavior; crime control. The influence of society in the creation and organization of legal and crime control systems. Biological, psychological, and sociological factors leading to criminal behavior.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 328 RACIAL AND ETHNIC MINORITIES**
Study of the major immigrant and racial groups in the United States and other countries. Issues and problems related to their minority status in the dominant culture.

**SOC 330** PERSPECTIVES ON AGING
An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. (Same as SWK 330.)

**SOC 331** MARRIAGE AND THE FAMILY
Historical, cross-cultural, and current study of social relationships during dating and courtship, interpersonal communication in marriage and family life, sexuality in marriage, adjustments in parenthood, divorce and remarriage, alternatives to traditional marriage, and the future of marriage and family life.

**SOC 332** SOCIOLOGY OF WOMEN
Cross-societal analysis of the position of women, with emphasis on industrialized and developing societies. The social positions of women and men in the family, work, politics, and the legal system. Consideration of theories of the biological, psychological, and sociological bases for the behavior and characteristics of women in the context of societal institutions.

**SOC 333** RELIGION AND SOCIETY
Definitions of religion and its role in society. Traditional and nontraditional expressions of religious life from the viewpoint of society. Varieties of religious experience and the interrelations between religious phenomena and other social institutions and societal behavior. 
Prerequisite(s): SOC 101 or SOC 204.

**SOC 336** ORGANIZATIONS IN MODERN SOCIETY
Analysis of the dynamics of organizations in modern industrial society. Organizational social psychology, organizational structure and process, and organization-community relations.
Prerequisite(s): SOC 101 or SOC 204.

**SOC 337** POLITICAL SOCIOLOGY
Study of political power. Political influence by economic elites, impact of bureaucracies, compelling ideologies, alienation and nonvoting, and social movements as challenges to power structures. 
Prerequisite(s): SOC 101 or SOC 204.

**SOC 339** SOCIAL INEQUALITY
Study of social inequality in society. Emphasis on the processes that divide people into unequal groups based on wealth, status, and power. The effects of inequality on individual life chances and life styles.

**SOC 340** SOCIAL PSYCHOLOGY IN SOCIETY
Survey of the basic principles, concepts, theories, and methods of social psychology from the sociological perspective.
Prerequisite(s): SOC 101 or SOC 204.

**SOC 341** SELF AND SOCIETY
Study of the relationship between self and others. Socialization, self conceptions, deviant behavior, social influence, and social control.

**SOC 342** COLLECTIVE BEHAVIOR
Study of social protest, crowds, social movements, revolution, fads, fashion, public opinion processes, propaganda, and political and social responses to these phenomena. 
Prerequisite(s): SOC 101 or SOC 204.

**SOC 343** MASS COMMUNICATION IN MODERN SOCIETY
Social-psychological analysis of the structure and processes of mass communication related to advertising, patterns of social behavior, social change, propaganda, censorship, media control, and social institutions.

**SOC 344** INTERACTION PROCESSES
Study of the interaction processes of social life. Bargaining and negotiation, cooperation, social influence, solidarity, competition, and conflict. **Prerequisite(s):** SOC 101 or 204.

**SOC 345**  
SOCIOLOGY OF EXTREMISM  
Study of the social understanding and social construction of identity, otherness, difference, and extremism in such cases as the development of white racial extremism in the United States. **Prerequisite(s):** SOC 101 or 204.

**SOC 351**  
URBAN SOCIOLOGY  
The study of the development of urban life from ancient times to the present, with an emphasis on contemporary urban population characteristics, social-economic-political structure, and problems. **Prerequisite(s):** SOC 101 or SOC 204.

**SOC 352**  
COMMUNITY  
Study of the interaction of groups and individuals related by common situations, problems and intentions; creation, maintenance, eclipse, and restoration of close social ties in urban neighborhoods, small towns, and groups with similar interests and lifestyles.

**SOC 355**  
FAMILIES AND THE ECONOMY  
The relationship between families and their socio-economic environment. Consideration of public issues including family policy and government programs to assist families. **Prerequisite(s):** SOC 101 or SOC 204.

**SOC 368**  
IMMIGRATION AND IMMIGRANTS  
Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. (Same as ANT 368.) **Prerequisite(s):** (SOC 101 or 204) or ANT 150.

**SOC 392**  
SELECTED TOPICS IN SOCIOLOGY  
Examination of a current topic of general interest in sociology. Majors and nonmajors may enroll. Consult composite for topics. May be repeated as topic changes. **Prerequisite(s):** SOC 101 or 204.

**SOC 398**  
SOCIAL SCIENCE SCHOLARS’ SEMINAR  
Study and seminar discussion of selected sociological writings and the analysis, interpretation and criticism of these works. Open only to second-year students in the Berry Scholars Program. **Prerequisite(s):** ENG 198, HST 198;

**SOC 409**  
SENIOR SEMINAR IN SOCIOLOGY  
Synthesis of previous coursework; examination of the logic of social inquiry through the analysis of competing sociological perspectives on a particular issue. Required for majors. **Prerequisite(s):** Permission of instructor.

**SOC 410**  
VICTIMOLOGY  
The study of victimization including the relationships between victims and offenders, the interactions of victims and the criminal justice system and other social groups and institutions. **Prerequisite(s):** SOC 101 or SOC 204.

**SOC 426**  
LEADERSHIP IN BUILDING COMMUNITIES  
Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools. **Prerequisite(s):** Junior standing. Same as POL 426.

**SOC 435**  
ECONOMY AND SOCIETY
Sociological analysis of modern economic institutions, with an emphasis on classical themes. Topics include capitalism, industrialism and social consequences of contemporary economic trends. Empirical research will be required.

**Prerequisite(s):** SOC 101 or SOC 204 and permission of instructor.

**SOC 437** MARX AND SOCIOLOGY

Study of Marx's writings on topics relevant to the social sciences. Comparison of contemporary Marxian scholarship in such areas as social inequality, political structures, urban change, ideology and consciousness, and models for the future.

**Prerequisite(s):** SOC 101 or SOC 204 and junior or senior standing.

**SOC 438** URBAN POVERTY

Study of the social factors that contribute to poverty in cities. Consideration of the social effects of government and other programs to alleviate poverty.

**Prerequisite(s):** SOC 101 or SOC 204.

**SOC 477** HONORS THESIS PROJECT

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**SOC 478** HONORS THESIS PROJECT

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**SOC 492** SPECIAL TOPICS IN SOCIOLOGY

Intensive examination of current theoretical or methodological issues; faculty-advised research project or library work. Consult composite for topics. May be repeated as topic changes.

**Prerequisite(s):** SOC 101 or SOC 204 and permission of instructor.

**SOC 495** SOCIOLOGY INTERNSHIP

Supervised work experience related to course work in sociology in appropriate government, social service, and private organizations. May be repeated to a maximum of 6 sem. hrs.

**Prerequisite(s):** Permission of chairperson.

**SOC 497** SERVICE LEARNING EXPERIENCE

Supervised community research or service experience that complements a specific upper division course in Sociology. Repeatable up to three semester hours.

**Prerequisite(s):** Permission of instructor.

**Corequisite(s):** A 300-400 Sociology course.

**SOC 498** INDEPENDENT STUDY

Research or special readings on problems of interest to the student under the guidance of sociology staff member.

**Prerequisite(s):** Permission of chairperson.

**SWK 201** SOCIAL WORK PRACTICE AND PROFESSION

Study of the historical and theoretical underpinnings of the social work profession. Study of social work practice theory and technique.

**SWK 303** COMMUNITY PRACTICE AND RESEARCH

Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system.

**Prerequisite(s):** SOC 101, 204; permission of instructor.
SWK 305 SOCIAL SERVICES IN THE HEALTH FIELD
The role of social services in health care facilities and governmental health programs. U.S. health care policies and programs; methods of social work intervention in medical settings.

SWK 307 MENTAL HEALTH SERVICES
Study of historical perspectives, deinstitutionalization, the community mental health movement, inpatient care, and innovative approaches. Policy and practice implications are examined.

SWK 310 LAW AND HUMAN SERVICES
Orientation to the legal system as it affects the provision of human services and the profession; social legislation and court decisions as they affect child welfare, public assistance, mental health, housing, and probation and parole services.

SWK 325 CHILD ABUSE
Comprehensive study of child abuse: its history, scope, causal factors, indicators for detection, treatment resources and modalities, and community responsibility.

SWK 327 PARENTING: SOCIAL WELFARE ROLE
Comprehensive study of historical and contemporary perspectives on parenting, future of parenting (assessing trends and choices in family structure and function), cross-cultural comparisons, policy and legal aspects of parenting, societal influences on parenting.

SWK 330 PERSPECTIVES ON AGING
An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. (Same as SOC 330.)

SWK 331 DEATH, DYING, AND SUICIDE
Study of the phenomena of death and dying. The role and responsibility of the professional in working with the dying and their survivors. Study of suicide in this society.

SWK 392 SPECIAL TOPICS
Exploration of special topics related to the field of human services. Assessment of appropriate literature and research. May be repeated as topics change.

SWK 401 COMMUNITY FIELD EXPERIENCE
Supervised field experience for students working in a micro or macro practice setting. Concurrent seminar includes intensive basic communication and interviewing skill development. Students spend 150 hours in the agency. Prerequisite(s): SWK 201; permission of instructor.

SWK 465 INDEPENDENT STUDY
Individual research, study, and readings on specific topics and/or projects of importance to social work. Under individual faculty direction. Prerequisite(s): Permission of instructor.

SWK 497 SERVICE LEARNING EXPERIENCE
Supervised community research or service experience that complements a specific upper division course in Social Work. Repeatable up to three semester hours. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 level Social Work course.
School of Education and Allied Professions
(EDT) Teacher Education (Collapse Description)

The University of Dayton's Department of Teacher Education has adopted a theme that is integrated through the entire program of study and is consistent with the school-wide conceptual framework. The theme of "Teacher as Reflective Decision Maker in a Pluralistic Society" is an appropriate choice, considering the complex needs of students from many different backgrounds, demand that teacher have as much preparation for this challenge as possible. The department adopted this theme in accordance with the University's Marianist Mission statement which encourages students to take an active role in improving the larger community, and in accordance with the unit outcomes for the SOEAP, which include: embracing diversity, building community, critical reflection, and scholarly practitioner.

To assure the competency of its students, the Department has established a selection and retention policy that requires students to demonstrate throughout their program of study a 2.5 grade-point average overall, in professional education courses, and in teaching fields; ability to pass all three sections of Praxis I, and competency in demonstrating particular objectives in field-based experiences. To receive a provisional license at the completion of their programs, all students are required to pass the Praxis II exit examination(s) mandated by Ohio's Department of Education, verify they are of "good moral character," be fingerprinted, and pass the background check.

Knowledge: Students will demonstrate their knowledge of the teaching and learning process; of human nature and of human development, particularly in educational settings; of the subject areas they wish to teach; and of the special needs of diverse student populations.

Skills: Students will be able to assess pupil learning needs, interests, and level of understanding; to formulate learning objectives; to select appropriate learning content, materials, and activities; to facilitate learning activities and provide effective learning environments; to evaluate pupil progress and promote self-assessment by pupils; to assess their own teaching competencies and the effect these have on pupil learning; and to apply theory to practice in planned and supervised clinical experiences.

Dispositions: Students will be able to value all students and families, exhibit a belief that all children can learn, collaborate with peers, instructors, and mentor teachers to actively meet the needs of students in their classrooms, adhere to the Professional Code of Ethical Conduct for their specialty area, foster well-integrated knowledge in their students through multi-perspective inquiry, value the profession of teaching as a dynamic profession that is driven by current research and requires a commitment to lifelong professional development.

Faculty
Kathryn Kinnucan-Welsch, Chairperson
Professors Emeriti: Anderson, Frye, Fuchs, Gay, Geiger, Grob, Joseph, Klosterman
Professors: Hart, Lasley, Losito, Rowley, Sudzina, Talbert-Johnson, Watras
Associate Professors: Adams, Biddle, Bowman, Hunn, Kinnucan-Welsch, Richards, Tillman, Weaver
Assistant Professors: Herrelko, Israel
Lecturer: Mullins
Administrative Faculty: Ferguson, Mathes
Other Faculty: Brink, Comingore, Dale, Eggemeier, Lawless, Oberlander, Stephens, Zahner

Sub-Categories / Concentrations / Focus Areas
Adolescence to Young Adult Education Early Childhood Education
Intervention Specialist Middle Childhood Education

Courses (Collapse All Courses)

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<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tr>
<td>EDT 109</td>
<td>PERSONAL ASPECTS OF TEACHING</td>
<td>1</td>
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This course is a candidate's general introduction to education as a profession, and to the University of Dayton. Candidates' personal values, goals, motives and strengths will be identified and reflected upon in relation to the qualities and dispositions necessary to be an effective teacher. This course serves as an introduction to the different program areas (AYA, MCE, ECE, IS and multi-age), to technology in education and to various educational issues. EDT 109 is waived for those candidates who transfer to the University.

EDT 110 THE PROFESSION OF TEACHING
This course is designed to study the principal components of effective teaching that facilitate the learning of all students. Current educational issues, the PRAXIS III/Pathwise framework, INTASC standards, other professional standards, developing a community of learners, service learning and teaching incorporating the Marianist traditions are other topics of the course. Field experience: 20 hours. Must register for EDT 110 Lab. Corequisite(s): EDT 110L.

EDT 110L THE PROFESSION OF TEACHING LAB
This lab consists of planned field experiences providing candidates the opportunity for field reflections in school settings. Must register for this lab in conjunction with EDT 110. Corequisite(s): EDT 110.

EDT 207 CHILD AND ADOLESCENT IN EDUCATION
Study of the empirical principles of intellectual, moral, physical, personality, and social development as related to performance in the classroom. Interpretations for appropriate generic teaching behaviors and developmental causes of behavior problems, are discussed. Clinical experience: 20 hrs.; field experience: 25 hrs. Prerequisite(s): EDT 110. Corequisite(s): EDT 207L.

EDT 207L CHILD AND ADOLESCENT IN EDUCATION LAB
This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to child and adolescent development in school settings. Corequisite(s): EDT 207.

EDT 211 CHILD DEVELOPMENT: BIRTH TO AGE 8
This course focuses on the study of typical physical, social, emotional, linguistic, cognitive, aesthetic and moral development of young children ages preconception through eight. Social and emotional development including guiding behavior will be emphasized. Students will use this knowledge to reflect on and make decisions about practices that serve the needs of young children and their families. This course includes 20 clinical hours to be completed in class and 40 field hours to be completed at the Bombeck Family Learning Center. Prerequisite(s): EDT 110. Corequisite(s): EDT 211L.

EDT 211L CHILD DEVELOPMENT: BIRTH TO AGE 8 LAB
This practicum course is a field experience held in conjunction with EDT 211 at the Bombeck Family Learning Center. Only students who have been accepted to the Early Childhood Program are eligible. During registration, students should sign up for a weekly time slot at the Bombeck Family Learning Center. Current medical forms with a negative TB test and background check are required. Forms are available in the Bombeck Family Learning Center. Corequisite(s): EDT 211.

EDT 212 EARLY CHILDHOOD THEORY AND PRACTICE
This course is a continuation of the theory base that drives developmentally appropriate practice for working with young children birth through age eight. Cognitive development will be emphasized. It extends knowledge of how children develop and learn to provide opportunities that support the physical, social, emotional, language, cognitive, and aesthetic development of all young children from birth through age eight. Students will learn the principles of planning and implementing developmentally appropriate curriculum and instruction based on knowledge of individual children, families and the community. Field experience: 40 hours at the Bombeck Family Learning Center.
Prerequisite(s): EDT 110 (may be taken as a corequisite).
Corequisite(s): EDT 212.

EDT 212L EARLY CHILDHOOD THEORY AND PRACTICE LAB
This practicum course is a field experience held in conjunction with EDT 212 at the Bombeck Family Learning Center. Only students who have been accepted to the Early Childhood Program are eligible. During registration, students should sign-up for a weekly time slot at the Bombeck Family Learning Center. Current medical forms with a negative TB test and background check are required. Forms are available in the Bombeck Family Learning Center.
Corequisite(s): EDT 212.

EDT 222 DEVELOPMENT IN MC AND AYA
This course is the study of the physical, social, emotional, intellectual and moral characteristics of the developmental period of early adolescence to young adulthood, within the context of human growth and development. The course focuses on changes in the family setting, social and community contexts, threats to health and safety, and typical risk behaviors. Field experience: 25 hours.
Prerequisite(s): EDT 110.
Corequisite(s): EDT 222L.

EDT 303 SCHOOL, SELF, AND SOCIETY
This course is a study of the relationships among institutional reform, personality development, and social change in rural, urban, and suburban schools to examine the influence of the cultures of communities on their schools. The responses of local schools to national policies will also be included in the course. Only offered in India.

EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION
This course is the study of American philosophy of education in a historical framework. This course emphasizes the political analyses of educational issues in their historical context. Thematic issues from the Catholic/Marianist perspective are included among the topics studied.
Prerequisite(s): EDT 110; PHL 103.

EDT 313 DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL
This course will expand the knowledge of how young children learn and develop and how to provide opportunities that support the physical, social, emotional, language, cognitive and aesthetic development of children from three through age five. Extensive focus on the content areas of art, music, science, social studies and math as well as integrating curriculum, the project approach, guiding challenging behaviors, and family culture will occur. 30 hrs. field experience with Miami Valley Child Development Center/Headstart or Montgomery County MRDD.
Prerequisite(s): EDT 110, 212.
Corequisite(s): EDT 313L.

EDT 313L DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL LAB
This lab consists of supervised field experiences providing candidates the opportunity for field reflections in regard to developmentally appropriate practice in diverse preschool settings.
Corequisite(s): EDT 313.

EDT 321 CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD
This course is the study of the middle childhood student within the classroom environment. Theories of learning and practical applications, motivation, classroom management and discipline, lesson and unit planning, teaching methodologies and assessment are examined and practiced. Field experience: 40 hours.
Prerequisite(s): EDT 110, 222.
Corequisite(s): EDT 321L.

EDT 321L CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LAB
This lab consists of planned field experiences providing candidates the opportunity for field reflections in regards to learning theories and classroom management in middle level school settings.

Corequisite(s): EDT 321

EDT 331 RELIGION METHODS 3
This course examines the planning, diagnosis, instructional methods, materials and assessment techniques utilized in teaching religion to students with varied needs and abilities.
Prerequisite(s): EDT 208; junior standing.

EDT 338 TEACHING AND LEARNING 3
This course is a study of the empirical principles of learning such as reinforcement, discovery, motivation and transfer theories. Interpretations for generic teaching behaviors especially in diagnosis, prescription and assessment are presented. Field experience: 20 hours.
Prerequisite(s): EDT 207 or 222.
Corequisite(s): EDT 208L.

EDT 338L TEACHING AND LEARNING LAB 1
This lab consists of planned field experiences providing candidates the opportunity for field reflections in regard to learning theories in school settings.
Corequisite(s): EDT 208

EDT 340 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS 3
This course is the study of the characteristics, legal aspects, and educational needs of students with challenges in learning. The role of the general educator in making curricular modifications and accommodations, adapting instruction and collaborating with other educators to facilitate learning in the general classroom for these students is examined. Field experience: 20 hrs.
Prerequisite(s): EDT 110.
Corequisite(s): EDT 340L.

EDT 340L EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB 0
This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to adapting learning experiences for diverse learners in school settings.
Corequisite(s): EDT 340

EDT 341 LANGUAGE DEVELOPMENT AND EMERGENT LITERACY 3
This course is the study of oral language and literacy development in children, with implications for all learners, including children with special needs.
Prerequisite(s): ECE: EDT 110, 211, 212. IS: EDT 110.

EDT 342 BEHAVIOR MANAGEMENT 3
This course examines the principles and methods of observing, recording, measuring and managing human behavior with emphasis on students with disabilities.
Prerequisite(s): EDT 340 (may be concurrently with EDT 342).

EDT 343 INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS 3
This course is a study of the role and function of the intervention specialist. This course presents issues of definition, identification and placement procedures. The candidate will acquire knowledge of major researchers and historians, variations in belief, traditions and values across cultures, and current practices in the field. Field experience: 20 hrs.
Corequisite(s): EDT 343L.

EDT 343L INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS LAB 0
This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to the individual learning needs of students in school settings.
Corequisite(s): EDT 343.

EDT 344 COLLABORATING WITH FAMILIES, PROFESSIONALS AND AGENCIES 3
This course examines theories and techniques to assist teachers in working with colleagues, families and agency personnel to provide an appropriate educational program, improve home-school relationships and develop family-professional partnerships. Historical and legal perspectives of parental influence on special education service are examined.

Prerequisite(s): EDT 343.

EDT 350 FOUNDATIONS OF LITERACY THROUGH LITERATURE
This course serves as an introductory course to the reading/language arts (listening, speaking, reading, writing, viewing, visual representation) and the role literature plays in these processes. It is a foundation course in reading and is intended to align with the requirements of Ohio Reading Core licensure standards for the Early Childhood, Middle Childhood, and Intervention Specialist programs. Topics examined include the foundations of literacy, research, theories and related models of reading, aspects and structures of text, various children’s and young adult literature, the integration of technology in literacy, an overview of the importance of ongoing assessment in teaching reading/language arts, and an awareness of cultural, linguistic, and ethnic diversity in individual learners.

Prerequisite(s): EDT 110, 207, 211 or 222.

EDT 400 INDEPENDENT STUDY
This course is an in-depth study of a selected educational topic. The candidate develops an individual learning plan that includes objectives, schedule of readings and assignments, products and methods of assessment.

Prerequisite(s): Permission of chairperson.

EDT 401 ADVANCED COMPUTERS/TECHNOLOGY IN EDUCATION
This course focuses on the integration of computers and related technology into the teaching of all subject areas; including the criteria for effective software and hardware and the creation of assessment and management instruments.

EDT 404 CURRENT INNOVATIONS IN EDUCATION
This course is the study of current innovations in education. The course focuses on the examination and critical analysis of recent trends in curriculum and instructional and assessment strategies in P-12 schools.

EDT 406 SPECIAL TOPICS IN TEACHING
This course is the study of specialized areas of education not typically included in the professional education sequence. Topics are announced.

EDT 412 DEVELOPMENTALLY APPROPRIATE PRACTICE FOR THE SIX THROUGH EIGHT YEAR OLD
Students will learn to use knowledge of how young children, ages six through eight, differ in their development and approaches to learning mathematics in order to provide individually appropriate opportunities for learning the subject. The course will emphasize teaching in the content of mathematics and will focus on the Ohio Mathematics academic content standards, the Ohio Early Learning Academic Content Standards: Math, and the NCTM standards. Field experience is integrated with the primary block. This course is part of the first semester senior year internship and culminates in the second semester of student teaching.

Prerequisite(s): EDT 110, 212, 313; successful completion of field experience.

Corequisite(s): EDT 413, 415, 415L, 454.

EDT 413 DEVELOPMENTALLY APPROPRIATE PRACTICE IN SOCIAL STUDIES FOR THE SIX THROUGH EIGHT YEAR OLD
Students will learn to use knowledge of how young children ages six through eight differ in their development and approaches to learning Social Studies in order to provide individually appropriate opportunities for learning the subject. The course will emphasize teaching in the content of Social Studies and will focus on the Ohio Social Studies academic content standards, the Ohio Early Academic Content Standards: Social Studies, and the NCSS standards. Field experience is integrated with the primary block. This course is part of the first semester senior year internship and culminates in second semester student teaching.

Prerequisite(s): Successful completion of field experience; EDT 110, 212, 313

Corequisite(s): EDT 412, 415, 415L, and 454
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDT 415</td>
<td>Working with Learners with Mild to Moderate Disabilities</td>
<td>2</td>
<td>This course is the study of the role and function of the early childhood educator in working with learners with mild to moderate disabilities. The course presents issues of definition, identification and placement procedures. The candidate will acquire knowledge of major researchers and historians, variations in belief, traditions and values across cultures, and current practices in the field. Field experience: 90 hrs. as part of the K-3 block. Prerequisite(s): EDT 212, 340. Corequisite(s): EDT 412, 413, 415L, 454.</td>
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<tr>
<td>EDT 415L</td>
<td>ECE Primary (K-3) Field Internship</td>
<td>1</td>
<td>This ECE field experience is the first semester of the senior level internship, which provides the candidate the opportunity for practice and reflection in K-3 settings. Prerequisite(s): EDT 212 and 340.</td>
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<tr>
<td>EDT 425</td>
<td>The Middle School Principles and Practices</td>
<td>3</td>
<td>This course is primarily a study of organization (school structure), philosophy and curriculum of middle level education (9-14 year olds), grades four through nine. It is designed to present the theoretical knowledge base about middle level (school) education. Field experiences via technology or school site placements with middle level students and experienced middle level educators are critical components in the implementation of the middle school knowledge base. Issues and concerns, current trends and the essential elements relating to middle level education will be discussed throughout the semester of study. A variety of inquiry methods will be modeled that encourage critical thinking skills. Prerequisite(s): EDT 222 and 321.</td>
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<tr>
<td>EDT 426</td>
<td>Reading/Language Arts for Middle Childhood</td>
<td>3</td>
<td>This course focuses on the planning, diagnosis, instructional methods, materials, assessment and evaluation techniques for teaching reading/language arts to students in the middle schools with varied needs and abilities. The topics emphasized in this course include: an understanding of Ohio's academic content standards for grades 4-9, applications and instructional techniques that address the Ohio proficiency tests, various resources, technologies, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 321, 425. Corequisite(s): EDT 458, 458L; two content methods courses.</td>
</tr>
<tr>
<td>EDT 427</td>
<td>Math for Middle Childhood</td>
<td>3</td>
<td>This course focuses on the planning, diagnosis, instructional methods, materials, assessment and evaluation techniques for teaching mathematics to students in the middle schools with varied needs and abilities. The topics emphasized in this course include: an understanding of Ohio's academic content standards for grades 4-9, applications and instructional techniques that address the Ohio proficiency tests, various resources, technologies, manipulatives, and other visuals, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 321, 425. Corequisite(s): EDT 458, 458L; two content methods courses.</td>
</tr>
<tr>
<td>EDT 428</td>
<td>Science for Middle Childhood</td>
<td>3</td>
<td>This course focuses on the planning, diagnosis, instructional methods, materials, assessment and evaluation techniques for teaching science to students in the middle schools with varied needs and abilities. The topics emphasized in this course include: an understanding of Ohio's academic content standards for grades 4-9, applications and instructional techniques that address the Ohio proficiency tests, various resources, technologies, experiments, and other hands-on experiences, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 321, 425. Corequisite(s): EDT 458, 458L; two content methods courses.</td>
</tr>
<tr>
<td>EDT 429</td>
<td>Social Studies for Middle Childhood</td>
<td>3</td>
<td>This course focuses on the planning, diagnosis, instructional methods, materials, assessment and evaluation techniques for teaching social studies to students in the middle schools with varied needs and abilities. The topics emphasized in this course include: an understanding of Ohio's academic</td>
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content standards for grades 4-9, applications and instructional techniques that address the Ohio proficiency tests, various resources, technologies and active hands-on experiences, other visuals, interdisciplinary connections, various grouping techniques and current research.

**Prerequisite(s):** EDT 321, 425.

**Corequisite(s):** EDT 458, 458L; two content methods courses.

EDT 431  
**INTEGRATED LANGUAGE ARTS METHODS FOR ADOLESCENT TO YOUNG ADULT**

This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of integrated language arts to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio proficiency and competency tests, various resources, technologies, interdisciplinary connections, various grouping techniques, best practices and current research. Field experience: 90 -120hrs.

**Prerequisite(s):** EDT 222, 222L, 338, 338L.

**Corequisite(s):** EDT 305, 340, 340L, 431, 459.

EDT 431L  
**INTEGRATED LANGUAGE ARTS METHODS AYA (7-12) FIELD INTERNSHIP**

This AYA field experience is the first semester of the senior level internship, providing the candidate with practice and reflection in the integrated language arts, AYA setting.

**Corequisite(s):** EDT 305, 340, 340L, 431, and 459

EDT 432  
**MATH METHODS FOR ADOLESCENT TO YOUNG ADULT**

This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of mathematics to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio proficiency and competency tests, various resources, technologies, manipulatives, and other visuals, interdisciplinary connections, best practices, various grouping techniques and current research. Field experience: 90 -120 hrs.

**Prerequisite(s):** EDT 222, 222L, 338, 338L.

**Corequisite(s):** EDT 305, 340, 340L, 432, 459.

EDT 432L  
**MATH METHODS AYA (7-12) FIELD INTERNSHIP**

This AYA field experience is the first semester of the senior level internship, providing the candidate with practice and reflection in a math, AYA setting.

**Corequisite(s):** EDT 305, 340, 340L, 432, 459.

EDT 433  
**FOREIGN LANGUAGE METHODS FOR ADOLESCENT TO YOUNG ADULT**

This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of foreign language to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio proficiency and competency tests, various resources, technologies, hands-on activities and other visuals, interdisciplinary connections, best practices, various grouping techniques and current research. Field experience: 90 -120 hrs.

**Prerequisite(s):** EDT 207, 207L, 338, 338L.

**Corequisite(s):** EDT 305, 340, 340L, 433, and 459.

EDT 433L  
**FOREIGN LANGUAGE METHODS FOR AYA (7-12) FIELD INTERNSHIP**

This AYA field experience is the first semester of the senior level internship, which provides the candidate with practice and reflection in a foreign language, AYA setting.

**Corequisite(s):** EDT 305, 340, 340L, 433, and 459.

EDT 434  
**SCIENCE METHODS FOR ADOLESCENT TO YOUNG ADULT**

This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of science to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio proficiency and competency tests, various resources, technologies, hands-on activities, interdisciplinary connections, best practices, various grouping techniques.
and current research. Field experience: 90 - 120 hrs.  
**Prerequisite(s):** EDT 222, 222L, 338, 338L.  
**Corequisite(s):** EDT 305, 340, 340L, 434L, 459.

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<th>Course Code</th>
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<td>SCIENCE METHODS FOR AYA (7-12) FIELD INTERNSHIP</td>
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<td>INTEGRATED SOCIAL STUDIES METHOD FOR ADOLESCENT TO YOUNG ADULT</td>
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<td>INTEGRATED SOCIAL STUDIES METHODS FOR AYA (7-12) FIELDS INTERNSHIP</td>
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<td>INTERVENTION SPECIALIST: MILD/MODERATE FIELD INTERNSHIP</td>
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<td>INSTRUCTIONAL STRATEGIES: MILD/MODERATE</td>
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<td>EDT 445</td>
<td>APPLICATION OF COMPUTERS/TECHNOLOGY IN SPECIAL EDUCATION</td>
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<td>EDT 447</td>
<td>INSTRUCTIONAL STRATEGIES: MODERATE</td>
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<tr>
<td>EDT 450</td>
<td>PHONICS, SPELLING, AND VOCABULARY</td>
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This course provides the background knowledge necessary for effectively teaching and assessing the role of phonics in the reading process. Emphasis is on developing phonemic awareness, phonics, spelling, and word recognition/word meaning embedded in the context of a total reading/language arts program focused on meaning construction.

**Prerequisite(s):** EDT 453 or 458 (may be taken concurrently with EDT 450).

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDT 452</td>
<td>CRITICAL READING IN THE CONTENT AREAS</td>
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<tr>
<td>EDT 453</td>
<td>INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD</td>
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<tr>
<td>EDT 454</td>
<td>METHODS OF LITERACY INSTRUCTION AND ASSESSMENT FOR EARLY CHILDHOOD</td>
</tr>
<tr>
<td>EDT 458</td>
<td>READING METHODS FOR MIDDLE CHILDHOOD</td>
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<td>EDT 458L</td>
<td>MCE MIDDLE LEVEL (4-9) FIELD INTERNSHIP</td>
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<td>EDT 459</td>
<td>CRITICAL READING AND WRITING IN THE CONTENT AREA</td>
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<tr>
<td>EDT 471</td>
<td>STUDENT TEACHING-Foreign Languages K-12</td>
</tr>
<tr>
<td>EDT 473</td>
<td>STUDENT TEACHING - PRIMARY GRADES</td>
</tr>
<tr>
<td>EDT 474</td>
<td>STUDENT TEACHING - MIDDLE CHILDHOOD</td>
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</table>

In this course, Middle Childhood and Intervention Specialist candidates examine the strategies and techniques in the development of prior knowledge skills, study skills, vocabulary, technology, and assessment as they relate to critical reading abilities in a variety of curriculum areas.

**Prerequisite(s):** EDT 350.

This course is a study of appropriate instruction and assessment supporting the literacy development of children (P-3). Major emphasis is on developing the knowledge base related to a comprehensive framework for literacy instruction, including reading, writing, and content area literacy, with a focus on instruction supporting emerging and early readers and writers.

**Prerequisite(s):** EDT 350.

This course is the continued study of appropriate instruction and assessment supporting the literacy development of children grades P-3, with a focus on instruction supporting developing and transitional readers and writers. Major emphasis is on the classroom application of the principles of comprehensive literacy instruction and assessment, including the writing process and comprehension strategies across the content areas.

**Prerequisite(s):** EDT 350, 453.

An integrated language arts course focusing on the knowledge base underpinning the teaching of reading and related language arts processes within the language arts and across the curriculum to students of various needs and abilities. Major emphasis is on the classroom application of the principles of comprehensive literacy instruction and assessment, including the writing process and comprehension strategies across the content areas.

**Prerequisite(s):** EDT 350.

**Corequisite(s):** EDT 458L, two content methods courses.

This MCE field experience is the first semester of the senior level internship, which provides the candidate with practice and reflection in middle level school settings.

**Corequisite(s):** EDT 458 and two content courses

In this course, adolescence to young adult candidates examine the strategies and techniques in the development of prior knowledge skills, study skills, vocabulary, technology, and assessment as they relate to critical reading and writing abilities in a variety of curriculum areas in the AYA classroom.

**Prerequisite(s):** EDT 110, 338, 338L.

**Corequisite(s):** EDT 305, 340, two content courses.

Full-time supervised and evaluated teaching of foreign languages in P-12 classes. The candidate will demonstrate the knowledge, skills, and dispositions required of a beginning foreign language teacher. Attendance at weekly seminars is required.

**Prerequisite(s):** EDT 433; formal admission to student teaching a full semester in advance.

The student teaching experience is a full-time, evaluated experience in a primary setting. The candidate will demonstrate the knowledge, skills and dispositions required of a beginning primary grade teacher.

**Prerequisite(s):** Formal admission to student teaching a full semester in advance.

Formal admission to student teaching a full semester in advance.
Full-time supervised and evaluated teaching in grades 4-9 in at least one of the two candidate's concentration subjects. The candidate will demonstrate the knowledge, skills and dispositions required of a beginning middle level teacher. Attendance at weekly seminars is required.

**Prerequisite(s):** Two of following: EDT 426, 427, 428 or 429; formal admission to student teaching a full semester in advance.

EDT 475  **STUDENT TEACHING - ADOLESCENT TO YOUNG ADULT**  12

Full-time supervised and evaluated teaching in the content area in a junior or senior high school classroom. The candidate is to demonstrate the knowledge, skills, and dispositions required of a beginning secondary teacher. Attendance at weekly seminars is required.

**Prerequisite(s):** Formal admission to student teaching a full semester in advance; the candidate must also complete two-thirds of the content area courses before student teaching.

EDT 476  **STUDENT TEACHING-INTERVENTION SPECIALIST: MILD/MODERATE**  12

Full-time supervised and evaluated teaching with students demonstrating mild/moderate learning needs. The candidate will demonstrate the knowledge, skills and dispositions of a beginning mild/moderate intervention specialist teacher. Attendance at a weekly seminar is required.

**Prerequisite(s):** EDT 342, 343, 343L, 344, 422L, 442, 443, 444, 445; formal admission to student teaching a full semester in advance.

EDT 477  **STUDENT TEACHING--ART K-12**  12

Full-time supervised and evaluated teaching in art classes in schools (P-12). The candidate will demonstrate the knowledge, skills, and dispositions required of a beginning art teacher. Attendance at a weekly seminar is required.

**Prerequisite(s):** VAE 231, 383, 483; formal admission to student teaching a full semester in advance.

EDT 478  **STUDENT TEACHING--MUSIC K-12**  12

Full-time supervised and evaluated teaching in music classes in schools (P-12). The candidate will demonstrate the knowledge, skills and dispositions required of a beginning music teacher. Attendance at a weekly seminar is required.

**Prerequisite(s):** MUS 331, 332, 335; formal admission to student teaching a full semester in advance.

EDT 498  **HONORS THESIS**  3

This course is based on the selection, design, investigation, and completion of an independent, original research thesis under the guidance of a faculty research director. Restricted to students in the University Honors Program with permission of the program director and EDT chairperson.

**Prerequisite(s):** Permission of department chairperson and program director.
School of Education and Allied Professions

(EDT) Teacher Education

You are currently viewing Adolescence to Young Adult Education, an academic area in Teacher Education. To view academic information for Teacher Education, click here.

(EYA) Adolescence to Young Adult Education (Collapse Description)

The Department of Teacher Education offers the program in adolescence to young adult (E-7N), which leads to the Bachelor of Science in Education and a provisional license to teach learners ages twelve through twenty-one and grades seven through twelve.

A student in the Adolescence to Young Adult Education Program is required to have a single comprehensive teaching field totaling a minimum of 39 semester hours and a maximum of 96 hours. The number of semester hours to complete the teaching field requirements is dependent upon the chosen teaching field and the concentration within the teaching field. Some semester hours may need to be taken during the summer. Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average is required overall, for the teaching field in which provisional licensure is sought, and in professional education courses to continue in the program, to student teach, and to be recommended for licensure. PRAXIS I, is required or waived, by the end of the first year. Students must verify "good moral character," be fingerprinted, and pass the Ohio Department of Education's required Praxis II exams in Professional Knowledge and the content area to be recommended for the provisional license.

Adolescence to young adult education teaching fields include the following:

- Earth Science
- Integrated Social Studies
- Earth/Chemistry
- Integrated Language Arts
- Life Science Life/Physics
- Integrated Mathematics
- Physical Science
- Life/Chemistry
- Integrated Science
- Earth/Physics
- Life/Earth

Majors/Minors

Major/Minor Name

- Bachelor of Science with a major in Adolescence to Young Adult Education (EYA)

(Leading to Ohio Provisional Adolescence to Young Adult License: grades 7-12)

First-Year

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<td>CMM 110</td>
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<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
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EDT 475 3  
STUDENT TEACHING - ADOLESCENT TO YOUNG ADULT  
Concentration/elective  3  

Field experiences are arranged by the University. Must register for lab.

2 Only applicable to Language Arts and Social Studies majors.

3 Students will have seminar throughout the semester.

4 EDT 340, 305, 459, and special methods in teaching field must be taken concurrently.
School of Education and Allied Professions
(EDT) Teacher Education

You are currently viewing Early Childhood Education, an academic area in Teacher Education. To view academic information for Teacher Education, click here.

(ECE) Early Childhood Education (Collapse Description)
The Department of Teacher Education administers the program in early childhood education, which leads to the Bachelor of Science in Education and provisional licensure to teach prekindergarten through grade 3.

A student in the Early Childhood Education Program is required to choose an area of focus for elective coursework.

Successful completion of EDT field experiences and a 2.5 cumulative grade point average is required overall and in professional education courses to continue in the program, to student teach, and to be licensed. PRAXIS I is required or waived (with eligible SAT or ACT scores) by the end of the first year. To be recommended for the provisional licensure, the early childhood education major must also pass the Praxis II exit examination(s), verify they are of "good moral character", be fingerprinted, and pass the requisite background check.

Majors/Minors

Major/Minor Name

Bachelor of Science with a major in Early Childhood Education (ECE)

(Leading to Ohio Provisional Early Childhood License: prekindergarten-grade 3)

Sem. Hrs.

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Elective 3
Social Science elective 3
Second-Term 17
CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111) PERSUASIVE PUBLIC SPEAKING (CMM 112) 1
EDT 2121 EARLY CHILDHOOD THEORY AND PRACTICE 3
EDT 212L EARLY CHILDHOOD THEORY AND PRACTICE LAB 0
SCI 210-210L THE DYNAMIC EARTH (SCI 210) THE DYNAMIC EARTH LABORATORY (SCI 210L) 4
Elective 3
PHL/REL elective 3
Arts Study elective 3

Junior-Year
First-Term 14
CMM 113 INTERVIEWING 1
EDT 341 LANGUAGE DEVELOPMENT AND EMERGENT LITERACY 3
EDT 350 FOUNDATIONS OF LITERACY THROUGH LITERATURE 3
SCI 230-230L ORGANISMS, EVOLUTION, AND ENVIRONMENT (SCI 230) ORGANISMS, EVOLUTION, AND ENVIRONMENT LABORATORY (SCI 230L) 4
Elective 3
Second-Term 17
EDT 313 DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL 7
EDT 313L DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL LAB 1
EDT 3402 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS 3
EDT 340L EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB 0
EDT 453 INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD 3
HSS 333 HEALTH, NUTRITION, AND SAFETY FOR THE YOUNG CHILD 3

Senior-Year
First-Term 17
EDT 4123 DEVELOPMENTALLY APPROPRIATE PRACTICE FOR THE SIX THROUGH EIGHT YEAR OLD 3
EDT 413 DEVELOPMENTALLY APPROPRIATE PRACTICE IN SOCIAL STUDIES FOR THE SIX THROUGH EIGHT YEAR OLD 2
EDT 415 WORKING WITH LEARNERS WITH MILD TO MODERATE DISABILITIES 2
EDT 415L ECE PRIMARY (K-3) FIELD INTERNSHIP 1
EDT 450 PHONICS, SPELLING, AND VOCABULARY 3
EDT 454 METHODS OF LITERACY INSTRUCTION AND ASSESSMENT FOR EARLY CHILDHOOD 3
General Education elective 3
Second-Term 12
EDT 473 STUDENT TEACHING - PRIMARY GRADES 12

1Field experiences arranged at the Bombeck Family Learning Center
2Field experiences are arranged by the University. Must register for lab.
3EDT 412, 413, 415L, and 454 must be taken concurrently.
School of Education and Allied Professions
(EDT) Teacher Education

You are currently viewing Intervention Specialist, an academic area in Teacher Education. To view academic information for Teacher Education, click here.

(EMM) Intervention Specialist (Collapse Description)
The Department of Teacher Education offers the program for intervention specialist, which leads to licensure to teach learners kindergarten through grade twelve with mild to moderate educational needs. Students in this program also have an emphasis in the middle childhood studies.

Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average is required overall and in professional education courses to continue in the program, to student teach, and to be recommended for licensure. PRAXIS I, is required or waived, by the end of the first year.

At the completion of the program, to be recommended for a provisional license, all students are required to pass the Praxis II exit examinations required by Ohio's Department of Education, to verify they are of "good moral character," and to be fingerprinted.

Majors/Minors

Major/Minor Name

Bachelor of Science with a major in Intervention Specialist (EMM)

(Leading to Ohio Provisional Intervention Specialist License: grades K-12)

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<th>Sem. Hrs.</th>
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<td>Second-Term</td>
<td>15</td>
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<tr>
<td>EDT 110 THE PROFESSION OF TEACHING</td>
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<tr>
<td>ENG 102 COLLEGE COMPOSITION II</td>
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<tr>
<td>HST 251 or 252 AMERICAN HISTORY TO 1865 (HST 251)</td>
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<tr>
<td>PHL 103 INTRODUCTION TO PHILOSOPHY</td>
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<td>SCI 210 THE DYNAMIC EARTH</td>
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<p>| Sophomore-Year              |           |
| First-Term                  | 14        |
| CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111) | 1         |
| EDT 207 CHILD AND ADOLESCENT IN EDUCATION | 3         |</p>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDT 207L</td>
<td>CHILD AND ADOLESCENT IN EDUCATION</td>
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<tr>
<td>EDT 305</td>
<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
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<td>CMM 113</td>
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<tr>
<td>EDT 341</td>
<td>LANGUAGE DEVELOPMENT AND EMERGENT LITERACY</td>
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<td>EDT 343L</td>
<td>INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS</td>
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<td>MATHEMATICAL CONCEPTS II</td>
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<tr>
<td>SCI 230-230L</td>
<td>ORGANISMS, EVOLUTION, AND ENVIRONMENT (SCI 230)</td>
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**Junior-Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>First-Term</td>
<td>EDT 321</td>
<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD</td>
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<tr>
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<td>EDT 321L</td>
<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LAB</td>
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<td>EDT 340L</td>
<td>EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS</td>
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<tr>
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<td>EDT 340L</td>
<td>EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB</td>
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<td>EDT 342</td>
<td>BEHAVIOR MANAGEMENT</td>
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<td>EDT 350</td>
<td>FOUNDATIONS OF LITERACY THROUGH LITERATURE</td>
<td>3</td>
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<td>EDT 445</td>
<td>APPLICATION OF COMPUTERS/TECHNOLOGY IN SPECIAL EDUCATION</td>
<td>2</td>
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<td>Arts Study elective (Cluster)</td>
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<tr>
<td>Second-Term</td>
<td>EDT 425</td>
<td>THE MIDDLE SCHOOL PRINCIPLES AND PRACTICES</td>
<td>3</td>
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<tr>
<td></td>
<td>EDT 427</td>
<td>MATH FOR MIDDLE CHILDHOOD</td>
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<tr>
<td></td>
<td>EDT 428</td>
<td>SCIENCE FOR MIDDLE CHILDHOOD</td>
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<td>EDT 450L</td>
<td>PHONICS, SPELLING, AND VOCABULARY</td>
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<td>EDT 453</td>
<td>INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD</td>
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**Senior-Year**

<table>
<thead>
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<th>Term</th>
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<tr>
<td>First-Term</td>
<td>EDT 344</td>
<td>COLLABORATING WITH FAMILIES, PROFESSIONALS AND AGENCIES</td>
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<td>EDT 442L</td>
<td>INTERVENTION SPECIALIST: MILD/MODERATE FIELD INTERNSHIP</td>
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<td>EDT 443L</td>
<td>CURRICULUM: MILD/MODERATE</td>
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<td>EDT 444L</td>
<td>INSTRUCTIONAL STRATEGIES: MILD/MODERATE</td>
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<td>EDT 452</td>
<td>CRITICAL READING IN THE CONTENT AREAS</td>
<td>3</td>
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<td></td>
<td>Elective</td>
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<td>Second-Term</td>
<td>EDT 476</td>
<td>STUDENT TEACHING-INTERVENTION SPECIALIST: MILD/MODERATE</td>
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http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001803&c=0&p=1000001907  7/10/2012
1 Field experiences are arranged by the University. Must register for lab.
2 Students should take a lab with either SCI 210 or SCI 230.
3 Must be taken concurrently. Field experience is required.
School of Education and Allied Professions

(EDT) Teacher Education

You are currently viewing Middle Childhood Education, an academic area in Teacher Education. To view academic information for Teacher Education, click here.

(EMS) Middle Childhood Education (Collapse Description)

The Department of Teacher Education administers the program in middle childhood education, which leads to the Bachelor of Science in Education and a provisional license to teach grades 4-9.

A student in the Middle Childhood Education Program is required to have two concentrations of 24 or more semester hours in the following content areas: mathematics, sciences, social studies and reading/language arts.

Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average is required overall, in professional education courses and in each of the concentration areas to continue in the program, to student teach, and to be recommended for provisional licensure. PRAXIS I, is required or waived, by the end of the first year. To be recommended for the provisional licensure, the middle childhood education major must also pass the Praxis II exit examination(s) in professional knowledge and the two concentration areas and verify they are of "good moral character" and be fingerprinted.

Majors/Minors

Major/Minor Name

Bachelor of Science with a major in Middle Childhood Education (EMS)

(Leading to Ohio Provisional Middle Childhood License: grades 4-9)

First-Year

<table>
<thead>
<tr>
<th>First-Term</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>EDT 109 (^1)</td>
<td>PERSONAL ASPECTS OF TEACHING</td>
</tr>
<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
</tr>
<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
</tr>
<tr>
<td>MTH 114 or 204</td>
<td>CONTEMPORARY MATHEMATICS</td>
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<tr>
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<td>(MTH 114)</td>
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<tr>
<td></td>
<td>MATHEMATICAL CONCEPTS I (MTH 204)</td>
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<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<tr>
<td>SCI 190-190L</td>
<td>THE PHYSICAL UNIVERSE (SCI 190)</td>
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<td>THE PHYSICAL UNIVERSE LABORATORY (SCI 190L)</td>
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Second-Term

<table>
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<tr>
<td>16-17</td>
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<tr>
<td>CMM 110</td>
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<td>EDT 110 (^1)</td>
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<tr>
<td>ENG 102</td>
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<tr>
<td>REL 103</td>
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<td>&amp; SCI 210L</td>
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Social Science elective

Sophomore-Year

First-Term

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<td>EDT 222&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>EDT 222L</td>
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**Junior-Year**

**First-Term**

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<td>(CMM 111)</td>
<td>PERSUASIVE PUBLIC SPEAKING</td>
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<td>(CMM 112)</td>
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<tr>
<td>EDT 321&lt;sup&gt;1,3&lt;/sup&gt;</td>
<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD</td>
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<td>EDT 321L</td>
<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LAB</td>
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<td>EDT 340&lt;sup&gt;3&lt;/sup&gt;</td>
<td>EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS</td>
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<td>EDT 340L</td>
<td>EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB</td>
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<td>Concentration&lt;sup&gt;2&lt;/sup&gt;</td>
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**Second-Term**

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<tr>
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<tr>
<td>EDT 305</td>
<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
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<tr>
<td>EDT 350</td>
<td>FOUNDATIONS OF LITERACY THROUGH LITERATURE</td>
<td>3</td>
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<tr>
<td>EDT 425</td>
<td>THE MIDDLE SCHOOL PRINCIPLES AND PRACTICES</td>
<td>3</td>
</tr>
<tr>
<td>Concentration&lt;sup&gt;2&lt;/sup&gt;</td>
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**Senior-Year**

**First-Term**

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<tr>
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<td>EDT 450&lt;sup&gt;3&lt;/sup&gt;</td>
<td>PHONICS, SPELLING, AND VOCABULARY</td>
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<td>EDT 458</td>
<td>READING METHODS FOR MIDDLE CHILDHOOD</td>
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<td>EDT 458L</td>
<td>MCE MIDDLE LEVEL (4-9) FIELD INTERNSHIP</td>
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<td>EDT 426, 427, 428, or 429 Concentration #2 Methods&lt;sup&gt;3&lt;/sup&gt;</td>
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<td>EDT 426, 427, 428, or 429 Concentration #1 Methods&lt;sup&gt;3&lt;/sup&gt;</td>
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**Second-Term**

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<tr>
<td>EDT 452</td>
<td>CRITICAL READING IN THE CONTENT AREAS</td>
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<td>EDT 474</td>
<td>STUDENT TEACHING--MIDDLE CHILDHOOD</td>
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</table>

<sup>1</sup>Field experiences are arranged by the University. Must register for Lab.

<sup>2</sup>Fewer concentration hours may be required depending upon chosen concentrations.

<sup>3</sup>Designates cohort courses to be taken together in the same semester.
College of Arts and Sciences  
(THR) Theatre (Collapse Description)  
A major in theatre, offered by the Department of Communication, provides a solid academic foundation plus the experience of working in a wide range of theatre productions, including mainstage productions in the Boll Theatre as well as experimental work in the Studio Theatre.  
Theatre majors are required to audition for roles and participate in each major production, for which they receive credit in THR 100 or 300.  
A minor in theatre consists of twenty-one semester hours. Courses in dance are not included.  
The Department of Communication also offers a concentration in THR (CTR).  
Faculty  
Kathleen B. Watters, Chairperson, Department of Communication  
Professor Emeritus: Gilvary  
Associate Professor: Anderson  
Assistant Professor: Dunlevy  
Majors/Minors (Collapse All)  
Major/Minor Name  
Bachelor of Arts with a major in Theatre (THR)  

<table>
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<th>Theatre</th>
<th>Sem. Hrs.</th>
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<tr>
<td>THR 105, (305 or 307), 310, (325 or 326), 330, 340, (415 or 425), (440 or 485 or 490)</td>
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<tr>
<td>THR Laboratories¹</td>
<td>4</td>
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<tr>
<td>THR 100, 300</td>
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<tr>
<td>THR electives²</td>
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Liberal Studies Curriculum  
Humanities and Fine Arts  
Philosophy and Religious Studies  
History  
Literature: English or Foreign Language (includes THR or other ARTS, but not THR 100 or 300)  
Creative and Performing Arts  
Foreign Language and/or Additional Arts and/or Humanities (excludes THR 100 and 300)  
Social Sciences  
Mathematics (excludes MTH 102, 204, 205)  
Natural Sciences  
Communication Competencies  
Introduction to the University: ASI 150  

General Education courses/academic electives to total at least 124  

¹A minimum of four semester hours of THR 100 and/or 300 are required for the degree program.
THR electives may include no more than three additional hours of THR 100 and/or 300.

Minor in Theatre (THR)

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>THR 105, 203, (415 or 425)</td>
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<tr>
<td>THR Laboratories¹</td>
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<tr>
<td>THR 100, 300</td>
<td>9</td>
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</tbody>
</table>

Select nine additional semester hours (300- or 400-level) 9

¹A minimum of three semester hours of THR 100 and/or 300 are required for minor.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>THR 100 THEATRE LABORATORY</td>
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<td>THR 105 INTRODUCTION TO THE THEATRE</td>
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<tr>
<td>THR 201 BASIC DANCE FOR THE PERFORMING ARTIST</td>
<td>2-3</td>
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<tr>
<td>THR 202 STAGE MAKEUP</td>
<td>2-3</td>
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<tr>
<td>THR 203 TECHNICAL PRODUCTION</td>
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<tr>
<td>THR 251 BEGINNING TAP DANCE</td>
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<tr>
<td>THR 261 BEGINNING JAZZ DANCE</td>
<td>2-3</td>
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<tr>
<td>THR 271 BEGINNING BALLET</td>
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<td>THR 300 THEATRE LABORATORY</td>
<td>1-3</td>
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<td>THR 301 INTERMEDIATE DANCE FOR THE PERFORMING ARTIST</td>
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<td>THR 303 SCENE PAINTING</td>
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<tr>
<td>THR 305 THEATRE STAGECRAFT</td>
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</table>

Credit allowance for role playing and/or play production in mainstage productions. Fifty hours of work minimum for one sem. hr. of credit. Repeatable up to 3 sem. hrs. in first and second years. All registration retroactive. No advance registration.

Analysis of the nature of theatre, its origin and development from the standpoint of the play, the physical theatre, and its place in our culture. Required of all majors. Open to all University students.

Beginning course in movement introducing the basic principles of dance and performance technique. Open to all University students.

The basic principles of the art and technique of makeup so that the student may use them in design and execution to develop and project the character. Open to all University students.

Introductory survey of scene design, construction, painting, and lighting. Current theory will be examined along with practical applications and techniques.

Beginning course in the theory and practice of tap dance.

Beginning course in the theory and practice of jazz dance.

Beginning course in the theory and practice of classical ballet technique.

The third and fourth-year level of credit allowance for role playing and/or play production. Requirements and registration same as for THR 100.

Intermediate-level course in movement for students interested in further developing dance and performance technique.

Permission.

Basic principles of color paint theory and materials. Investigation of various scene-painting techniques. One three-hour class meeting weekly.

Permission.

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001775&c=-1&p=-1 7/10/2012
<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>THR 307</td>
<td>THEATRE LIGHTING</td>
<td>3</td>
<td>Study and application of lighting for the stage: instruments, controls, sources, elements of electricity, and lighting design for all types of theatres, as well as graphic representation.</td>
</tr>
<tr>
<td>THR 310</td>
<td>ACTING I</td>
<td>3</td>
<td>The study and practice of basic techniques in rehearsal and performance. Emphasis on self-analysis and self-awareness. Development of basic skills in vocal, emotional, and mental interpretation of character. Required of all theatre majors. Prerequisite(s): THR 105 or permission.</td>
</tr>
<tr>
<td>THR 312</td>
<td>FILM AND TV ACTING</td>
<td>3</td>
<td>The study and practice of basic techniques of acting for film and television. Emphasis on technical requirements of acting for the camera and the control of body and voice actors must exercise in these media. Prerequisite(s): THR 310.</td>
</tr>
<tr>
<td>THR 320</td>
<td>MOVEMENT AND VOICE FOR THE STAGE</td>
<td>3</td>
<td>An integrated approach to the study of stage movement and voice production for the theatre.</td>
</tr>
<tr>
<td>THR 323</td>
<td>ACTING II</td>
<td>3</td>
<td>Further study and practice of techniques introduced in Acting I. Emphasis on interaction, ensemble, group processes, and scene study. Prerequisite(s): (THR 105, 310) or permission.</td>
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<tr>
<td>THR 325</td>
<td>THEORY AND CRITICISM OF THE STAGE I</td>
<td>3</td>
<td>Survey of representative plays from classical to neo-classical periods as a basis for theatrical production and dramatic criticism. (THR 325 or 326 required of all majors.) Prerequisite(s): THR 105.</td>
</tr>
<tr>
<td>THR 326</td>
<td>THEORY AND CRITICISM OF THE STAGE II</td>
<td>3</td>
<td>Continuation of THR 325 from romantic to modern periods. Prerequisite(s): THR 105.</td>
</tr>
<tr>
<td>THR 330</td>
<td>CONCEPTS OF SCENE DESIGN</td>
<td>3</td>
<td>Studies in the principles of composition and aesthetic theory as applicable to scene design. Development of personal design approach to plays of various styles. Required of all theatre majors.</td>
</tr>
<tr>
<td>THR 340</td>
<td>THE DIRECTOR IN THE THEATRE</td>
<td>3</td>
<td>The basic functions of a director in the production of play: interpretation, composition, movement, characterization, rhythm, design concept, and actor training. Required of all theatre majors. Prerequisite(s): THR 105, 310, 330.</td>
</tr>
<tr>
<td>THR 344</td>
<td>ACTING/DIRECTING FOR MUSICAL THEATRE</td>
<td>3</td>
<td>Study of performance and directing techniques for Musical Theatre. Studio Fee.</td>
</tr>
<tr>
<td>THR 350</td>
<td>THEATRE STYLES</td>
<td>3</td>
<td>Examination of the relationships among playwright, audience, actor, designer, and director in the development of major theatre styles of expression.</td>
</tr>
<tr>
<td>THR 351</td>
<td>INTERMEDIATE TAP DANCE</td>
<td>3</td>
<td>Intermediate course in the theory and practice of tap dance.</td>
</tr>
<tr>
<td>THR 361</td>
<td>INTERMEDIATE JAZZ DANCE</td>
<td>2</td>
<td>An intermediate course in the theory and practice of jazz dance and technique. Prerequisite(s): Permission.</td>
</tr>
<tr>
<td>THR 371</td>
<td>INTERMEDIATE BALLET</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
Intermediate course in the theory and practice of classical ballet technique.  
**Prerequisite(s):** Permission.

**THR 414  ADVANCED SCENE DESIGN**

Individual development in scene design through intensive study in plays of various styles. Detailed representation of design ideas in rendering and models required.  
**Prerequisite(s):** THR 330; permission.

**THR 415  HISTORY OF THE THEATRE I**

History of theatre from pre-Grecian through Elizabethan; the physical theatre as reflection of and influence on civilization. (THR 415 or 425 required of all majors.)

**THR 424  PLAY DIRECTING**

Study of the evolution of the modern director. Emphasis is on script interpretation as a basis for the development and execution of the production concept.  
**Prerequisite(s):** THR 340.

**THR 425  HISTORY OF THE THEATRE II**

Continuance of 415 from the Italian Renaissance to the modern theatre. (THR 415 or 425 required of all majors.)

**THR 440  PROBLEMS IN THEATRE PRODUCTION AND DESIGN**

Individual research and project work of student's selection under the direct supervision of faculty. (THR 440 or THR 485 or THR 490 required of all majors.) Repeatable up to 12 sem. hrs.  
**Prerequisite(s):** Permission.

**THR 447  HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approval of the University Honors Program.

**THR 478  HONORS THESIS PROJECT**

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.  
**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**THR 485  THEATRE SEMINAR**

Concentration on one theatrical figure, genre period, or discipline for research and analysis. (THR 440 or THR 485 or THR 490 required of all majors.) Repeatable up to 6 sem. hrs.  
**Prerequisite(s):** Permission.

**THR 490  SPECIAL PROBLEMS IN THEATRE**

Individual research and report on topic of student's choice in the field of theatre under direct supervision of faculty/staff. (THR 440 or THR 485 or THR 490 required of all majors.) Repeatable up to 9 sem. hrs.

**THR 498  THEATRE INTERNSHIP**

Theatre work experience with an approved organization. Student must be in good academic standing with at least twelve hours of THR courses completed. Student may petition the head of the Theatre Program for a second internship if the second internship is at a different organization and the student can demonstrate that the second internship offers a unique and significant educational opportunity not available through the first internship. Permission. Option 2 grading only.
College of Arts and Sciences (VAR) Visual Arts (Collapse Description)

The Department of Visual Arts faculty members teach the perceptual, practical, and critical skills necessary for the creation and understanding of art in a variety of media and contexts. They also cover the history of the visual arts and cultivate students to appreciate and articulate the meaning and value of this area of study. The department faculty emphasize the highly integrative nature of the visual arts and their immense cultural and personal importance. In addition, the department offers opportunities for professional career development in many different fields.

The department offers eight degree programs:
- Bachelor of Arts with a Major in Fine Arts
- Bachelor of Fine Arts with a Major in Fine Arts
- Bachelor of Arts with a Major in Visual Communication Design
- Bachelor of Fine Arts with a Major in Visual Communication Design
- Bachelor of Arts with a Major in Photography
- Bachelor of Fine Arts with a Major in Photography
- Bachelor of Fine Arts with Teacher Licensure
- Bachelor of Arts with a Major in Art History

Visual Arts Minors

A minor in fine arts consists of twenty-one semester hours.

A minor in visual communication design consists of twenty-one semester hours.

A minor in photography consists of twelve semester hours of 300 - 400 level courses and prerequisites.

A minor in art history consists of eighteen semester hours.

Transfer students seeking a visual arts minor must complete at least 9 of the required semester hours in the visual arts department while in residency at the University of Dayton.

Visual Arts Foundations

Visual arts foundation courses introduce students to fundamental principles, practices, materials, and vocabulary common to all visual arts disciplines. These courses provide a common background of skill development along with an understanding of primary concepts in the visual arts and a basis for critical evaluation. All foundation courses share the objective of preparing students to face the challenges of their specific disciplines.

Second Year and Scholarship Review

Near the end of their second year, all Visual Arts majors are reviewed by the Visual Arts faculty. Participation in the Second Year and Scholarship Review is mandatory for all majors. Students must receive a satisfactory review rating before graduating with a visual arts degree. Also included in the review are first and third year students who have been awarded Visual Arts Scholarships. The review process is a valuable learning experience for the student and it helps the faculty to recommend ways in which students may build upon their assets and overcome their liabilities. Scholarship funds are available to a limited number of students whose performance in the review is judged by the faculty to be outstanding.

Senior Capstone Courses

These courses, required in all majors, bring together the skills, education, ideas, and goals of senior students. They stress an integrated approach to learning and working and they focus on preparing students for their futures beyond the University. They provide a logical continuity that begins with the Visual Arts Foundations and the midpoint evaluation of the Second Year and Scholarship Review.

Faculty

Fred Niles, Chairperson
Professors: Niles, Wilkinson, Zahner
Associate Professors: Crum, Gooch, Marcinowski, J. Whitaker, J.M. Whitaker, Wilbers
Assistant Professors: Holscher, Huacuja, Jones, Kwon, Phelps
Lecturer: Simon
Part-time Instructors: Crum, Emery, Kargl, Langenderfer, Lawson, Manera-Missall, Smith, Wallace

Sub-Categories / Concentrations / Focus Areas
- Art Education
- Art History
- Fine Arts
- Photography
- Visual Communication Design

### Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAD 211</td>
<td>FUNDAMENTALS OF VISUAL COMMUNICATION DESIGN</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A course for non-majors in the basics of design for communication. Attention to page layout, typography, image, graphic style, and information delivery. Studio fee.</td>
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<tr>
<td>VAD 215</td>
<td>COMPUTER APPLICATIONS-DESIGN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>An introduction to drawing and paint software programs and their use in illustration. Studio fee.</td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAR 200.</td>
<td></td>
</tr>
<tr>
<td>VAD 218</td>
<td>COMPUTER APPLICATIONS-ILLUSTRATION</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>An introduction to drawing and paint software programs and their use in illustration. Studio fee.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAR 200.</td>
<td></td>
</tr>
<tr>
<td>VAD 245</td>
<td>TYPOGRAPHY I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The study of the design, appearance and arrangement of letters and words. Attention to their importance as both functional and expressive elements in communication messages. Studio fee.</td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAD 215 or 218; VAR 200.</td>
<td></td>
</tr>
<tr>
<td>VAD 307</td>
<td>DRAWING FOR GRAPHIC DESIGN</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Exploration of materials, procedures, and drawing techniques for design presentations. Studio fee.</td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAF 104.</td>
<td></td>
</tr>
<tr>
<td>VAD 312</td>
<td>VISUAL FORM</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Investigation of the perceptual and psychological effect of the visual elements-line, shape, value, volume, texture, and color-in visual communication. Exploration of word and image relationships. Studio fee.</td>
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</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAF 216.</td>
<td></td>
</tr>
<tr>
<td>VAD 318</td>
<td>GRAPHIC DESIGN FOR THREE DIMENSIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The application of graphic design principles to packaging, product, exhibition, and environmental design.</td>
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</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAD 245, 312; VAF 117.</td>
<td></td>
</tr>
<tr>
<td>VAD 320</td>
<td>COMPUTER-AIDED GRAPHIC DESIGN</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An exploration of the use of the computer as both a tool and a medium for the design and production of visual communication. Studio fee.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAD 215, 245.</td>
<td></td>
</tr>
<tr>
<td>VAD 321</td>
<td>COMPUTER-AIDED ILLUSTRATION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An exploration of the use of the computer as both a tool and a medium for the creation and production of illustrations. Studio fee.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>VAD 218, 245.</td>
<td></td>
</tr>
<tr>
<td>VAD 344</td>
<td>DESIGN FOR MULTIMEDIA I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introduction to the design process, including visual principles, aesthetic issues, and diverse applications for multimedia and interactive electronic media. Emphasis is placed on the visual organization of information in these environments. Studio fee.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td>(VAD 215 or 218), 245, 360) or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>VAD 345</td>
<td>TYPOGRAPHY II</td>
<td>3</td>
</tr>
</tbody>
</table>

http://bulletin.udayton.edu/bulletin.ud?v=6&g=0&pp=1000001784&p=0&c=-1 7/10/2012
The advanced study of typographic design. Attention to the aesthetic and informational qualities of type in print and electronic communication. Studio fee.

**Prerequisite(s):** VAD 245.

**VAD 350 DESIGN PROCESS**

Focus on the developmental process of visual communication, including concept development, visualization techniques, presentation formats, and production methods. Studio fee.

**Prerequisite(s):** VAD 215, 312, 245.

**VAD 360 DESIGN FOR THE INTERNET**

Studio course in the design of electronic communications for the Internet, and specifically the World Wide Web. The course will emphasize current technology for information delivery, with significant consideration being given to critical issues in visual communication. Studio fee.

**Prerequisite(s):** VAD 215 or 218; 245.

**VAD 365 ADVERTISING DESIGN**

Emphasis on print advertising, its creation and presentation. Concept development and attention to advertising layouts that carry motivating images and messages to consumers about products, services, or ideas. Studio fee.

**VAD 411 GRAPHIC DESIGN I**

Study, design, and application of marks, logos, and symbols in visual communication. Attention to effective visual relationships between typographic elements and images in single-page applications. Studio fee.

**Prerequisite(s):** VAD 245.

**VAD 412 GRAPHIC DESIGN II**

Continued study of effective visual relationships between typographic elements and images. Emphasis on sequential page design. Studio fee.

**Prerequisite(s):** VAD 411 or permission.

**VAD 414 TRADEMARK DESIGN**

Advanced study of marks, logos, and symbols as communication and identification elements. Emphasis on conceiving design marks of identity for small businesses, corporations, institutions, products, and/or services. Studio fee.

**Prerequisite(s):** VAD 411.

**VAD 415 GRAPHIC DESIGN III**

The study and design of identification and image systems for products, organizations, institutions, or corporations. Emphasis on continuity in the application of visual communication factors. Studio fee.

**Prerequisite(s):** VAD 412 or permission.

**VAD 444 DESIGN FOR MULTIMEDIA II**

Advanced level design for multimedia and interactive electronic media. Emphasis is placed on actual or simulated client-based projects.

**Prerequisite(s):** VAD 344.

**VAD 480 VISUAL COMMUNICATION DESIGN INTERNSHIP**

Opportunities for practical experience in professional working environments. Repeatable up to 12 sem. hrs.

**Prerequisite(s):** Permission.

**VAD 490 SPECIAL PROBLEMS**

A course for advanced individual work in design or illustration. Approval based on academic standing and permission of instructor. Repeatable up to 15 sem. hrs. Studio fee.

**VAD 498 SENIOR/PROFESSIONAL SEMINAR--VCD**

Capstone course required of all B. A. and B.F.A. visual communication design majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.

**Prerequisite(s):** Senior standing or permission.
VAD 499  PORTFOLIO AND PAPER–VCD
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.
Prerequisite(s): VAD 498 or permission.

VAE 101  EARLY CHILDHOOD ART EDUCATION
Acquaints students, especially those seeking Early Childhood Licensure, with the principles and concepts of art and with the various materials and techniques used in artistic expression. Open to all students. Studio fee.

VAE 231  INTRODUCTION TO ART EDUCATION
An introduction to the pedagogical, philosophical, and psychological aspects of teaching the arts. Topics will include: technology, national and state standards, history, learners with special needs, reading in the arts, and professional associations. Studio fee.
Prerequisite(s): EDT 110, 110L.
Corequisite(s): Field experience.

VAF 104  FOUNDATION DRAWING
Introduction to basic visual concepts, various drawing media, and approaches to experimental technique. Emphasis on perspective, perceptual awareness, volume in space, and expressive freedom. Studio fee.
Prerequisite(s): VAF 104.

VAF 204  DRAWING II
Emphasis on figure drawing with work from the nude model and the skeleton. Study of proportion, rendering volume, and developing expressive drawing skills in a variety of drawing media. Model fee.
Prerequisite(s): VAF 104.
VAF 216  DESIGN AND COLOR
The study of color based on historical and contemporary color theories and
the use of color in expressing and integrating design concepts.
Prerequisite(s): VAF 112 or permission.

VAF 226  PAINTING I
Introduction to basic painting principles, techniques, and materials; still life,
landscape, figure, and abstraction. Studio fee.
Prerequisite(s): (VAF 104, 112, 216) or permission.

VAF 228  WATERCOLOR I
Principles and techniques of transparent watercolor. Emphasis on technical
mastery.
Prerequisite(s): (VAF 104, 112, 216) or permission.

VAF 232  SCULPTURE I
Consideration of forms as a means of developing an understanding of mass,
shape, and control of medium. The use of various materials such as wood,
plaster, and clay, with emphasis on integrating material with personal
expression. Studio fee.

VAF 240  CERAMICS I
Introduction to basic methods of working in clay using coil and slab
techniques. Studio fee.

VAF 253  PRINTMAKING I
Introduction to the traditional printmaking methods of woodcut and intaglio.
Instruction in edition-printing techniques and curating of prints. Studio fee.
Prerequisite(s): (VAF 104, 112) or permission.

VAF 304  DRAWING III
Continuation of work done in VAF 204 with an emphasis on the development
of finished figure drawings. Study of anatomy and the rendering of
convincing volumes in space. Model fee.
Prerequisite(s): VAF 204.

VAF 325  FIGURE PAINTING
Painting from the model with a variety of media. Traditional and
contemporary approaches to the figure. Model fee.
Prerequisite(s): (VAF 204 or 304), 226) or permission.

VAF 326  PAINTING II
Painting with oils or acrylics; continuing study of the principles and
techniques of painting, with emphasis on personal expression and
experimentation. Studio fee.
Prerequisite(s): VAF 226 or 228 or permission.

VAF 328  WATERCOLOR II
Continuing investigation of watercolor techniques, both traditional and
experimental. Still life, figure, landscape, and abstraction.
Prerequisite(s): VAF 228 or permission.

VAF 332  SCULPTURE II
Continued exploration of three-dimensional concepts and materials,
concentrating on wood, stone, and metal. Studio fee.
Prerequisite(s): VAF 232 or permission.

VAF 340  CERAMICS II
Introduction to basic methods of working clay using the wheel. Studio fee.

VAF 353  PRINTMAKING II
Advanced work in woodcut, monoprint and intaglio, including acrylic process
and color etchings. Studio fee.
Prerequisite(s): VAF 253 or permission.

VAF 370  ILLUSTRATION I
Attention to conceptual, visual, and technical development. Exploration of
media and techniques employed by the illustrator in creating images for
VAF 380  ILLUSTRATION II  
Interpretation and representation of concepts, products, or stories for magazines, books, newspapers, and advertising. Continued technical development with a variety of materials, media, and techniques. Studio fee.  
Prerequisite(s):  VAF 104, 204.

VAF 404  DRAWING IV  
Observational and expressive drawing. Continued work with the figure in combination with a variety of other subject matter. Emphasis on the development of a body of work with a related idea. Model fee.  
Prerequisite(s):  (VAF 204, 304) or permission.

VAF 426  PAINTING III  
Directed advanced studio problems; contemporary issues in painting. Repeatable up to 9 sem. hrs. Studio fee.  
Prerequisite(s):  VAF 325 or 326 or permission.

VAF 440  CERAMICS III  
Introduction to Raku, a 400-year-old Japanese ceramic glaze firing technique adapted for the contemporary potter. Study includes glaze formulation, handbuilding and/or wheel throwing techniques. Studio fee.  
Prerequisite(s):  (VAF 240, 340) or permission.

VAF 453  PRINTMAKING III  
Advanced work in printmaking processes with an emphasis on the production of multi-color editions. Studio fee.  
Prerequisite(s):  VAF 353.

VAF 470  ILLUSTRATION III  
Focus on developing an individual point of view and illustration style. Studio Fee.  
Prerequisite(s):  VAF 380.

VAF 490  SPECIAL PROBLEMS  
A course for advanced individual work in fine arts. Approval based on academic standing and permission of instructor. Repeatable up to 15 sem. hrs.

VAF 498  SENIOR/PROFESSIONAL SEMINAR--FINE ARTS  
Capstone course required of all B.A. and B.F.A. fine arts and art education (E11) majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.  
Prerequisite(s):  Senior standing or permission.

VAF 499  PORTFOLIO AND PAPER--FINE ARTS  
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.  
Prerequisite(s):  VAF 498 or permission.

VAH 101  INTRODUCTION TO THE VISUAL ARTS  
Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

VAH 201  SURVEY OF ART I  
Survey of Western art from pre-history through the late medieval period. Open to all students. Fee.

VAH 202  SURVEY OF ART II  
Survey of Western art from the late medieval period through the Baroque. Open to all students. Fee.

VAH 203  SURVEY OF ART III  
Survey of Western art from the eighteenth through the twentieth centuries. Open to all students. Fee.
VAH 350  WESTERN ARCHITECTURE
Introduction to the history, theory, and practice of Western architecture from pre-history through the contemporary period. Open to all students. Fee.

VAH 360  ART HISTORY AND FEMINISM
Introduction to feminist approaches to art history and women artists from the medieval period to the present. Open to all students. Fee.

VAH 370  AMERICAN ART
Introduction to American art and architecture from the colonial period to the present. Open to all students. Fee.

VAH 382  HISTORY OF PHOTOGRAPHY I
History of the cultural, social, and aesthetic roles of photography from the camera obscura to 1945. Emphasis on the changing practice and perception of the medium as an art form, as social document, and as popular culture. Open to all students. Fee.

VAH 383  HISTORY OF VISUAL COMMUNICATION DESIGN
Study of the significant developments, movements, and figures in the history of visual communication with an emphasis on the twentieth century. Open to all students. Fee.

VAH 450  ITALIAN RENAISSANCE ART
Introduction to the painting, sculpture, and architecture of Italy between c. 1300 and c. 1550. Fee. Prerequisite(s): VAH 202 or permission.

VAH 460  BAROQUE ART
Study of the major painters, sculptors, and architects of the seventeenth century. Fee. Prerequisite(s): VAH 202 or permission.

VAH 470  NINETEENTH-CENTURY ART I
Study of the major artists and movements in European art from Neo-Classicism to the beginnings of Realism. Fee. Prerequisite(s): VAH 203 or permission.

VAH 471  NINETEENTH-CENTURY ART II
Study of the major artists and movements in European art from Realism through Art Nouveau. Fee. Prerequisite(s): VAH 470 or permission.

VAH 480  TWENTIETH-CENTURY ART I
Study of the major movements and artists in the painting, sculpture, architecture, and other media from 1900 to 1945. Open to all students. Fee.

VAH 482  HISTORY OF PHOTOGRAPHY II
The history of photography from 1945 to the present. Open to all students. Fee.

VAH 483  TWENTIETH-CENTURY ART II
Study of the major movements and artists in painting, sculpture, architecture, and other media from 1945 to the present. Open to all students. Fee.

VAH 485  ART HISTORY SEMINAR
A seminar and capstone reading and research course concentrating on one art historical topic for detailed analysis. May be repeated as topics change. Prerequisite(s): Permission of instructor.

VAH 490  SPECIAL PROBLEMS
Advanced, independent study with faculty direction in art history. Prerequisite(s): One art history course or permission.

VAP 101  FOUNDATION PHOTOGRAPHY
Emphasis on learning and exploring the visual language of photographic imagery through a series of creative assignments. Fundamentals of black-
and-white still photography: camera function, exposure, film processing, and printing. Students gain sound technical and creative control of the medium. Studio fee.

VAP 201 PHOTOGRAPHY II
Specific projects to develop personal expression and sustained creative growth, increased technical competence, and greater visual awareness. Students learn more advanced photographic techniques, including negative and printing controls, and different camera formats. Studio fee.

Prerequisite(s): VAP 101 or equivalent.

VAP 240 DIGITAL IMAGERY I
Introduction to the theory, ethics, aesthetics, and practice of computer image digitizing, enhancement, compositing, and manipulation as applied to digital photography. Some prior knowledge of computers is helpful. Studio fee.

VAP 302 COLOR PHOTOGRAPHY I
Introduction to techniques and aesthetics of color photography; students learn to use transparency and negative films and to make color prints. Studio fee.

Prerequisite(s): VAP 101 or permission.

VAP 320 STUDIO PRACTICE I
Extensive use of large format camera, studio grip equipment, tungsten and electronic flash lighting techniques; still-life and portrait photography in a studio environment. Studio fee.

Prerequisite(s): VAP 201.

VAP 321 STUDIO PRACTICE II
Emphasis on the production of a professional-quality portfolio which will demonstrate advanced knowledge of the studio and image production. Studio fee.

Prerequisite(s): VAP 320.

VAP 330 ALTERNATIVE PHOTOGRAPHY I
Introduction to specialized image production utilizing silver and non-silver photographic processes. Emphasis on technical and aesthetic aspects of alternative photographic practice. Studio fee.

Prerequisite(s): VAP 101.

VAP 331 ALTERNATIVE PHOTOGRAPHY II
Continuing work with alternative silver and non-silver processes. Emphasis on completion of an artist book or installation which demonstrates advanced technical command and aesthetic understanding of the processes employed. Studio fee.

Prerequisite(s): VAP 330.

VAP 340 DIGITAL IMAGERY II
Continuation of the theory and practice of computer imaging and the electronic darkroom; and the incorporation of digital images into other media. Emphasis on digital photography, videographic imaging and the role of digital images in art and society. Studio fee.

Prerequisite(s): VAP 240.

VAP 350 VIEW CAMERA
Extensive experience with the view camera, examination of refined techniques, various applications, and concepts of large format photography. Studio fee.

Prerequisite(s): VAP 201.

VAP 402 COLOR PHOTOGRAPHY II
A continuation of color printing from negatives; completion of individual projects which will demonstrate an advanced understanding of the techniques and aesthetics peculiar to color photography. Studio fee.

Prerequisite(s): VAP 302.

VAP 410 ADVANCED PHOTOGRAPHY
Students with a substantial commitment to photography and with demonstrated technical skills work on individual projects and participate in group critiques and discussion. Studio fee.

Prerequisite(s): VAH 382; VAP 201, 302.
VAP 420 PHOTOJOURNALISM
A variety of ways of using photography as documentation, narrative, and propaganda. Editing of work, layout, and image-text relationships. Personal photographic essay required. Studio fee.
Prerequisite(s): VAP 201.

VAP 430 PROFESSIONAL PHOTOGRAPHIC APPLICATIONS
Problem-solving associated with professional photography; may include commercial, editorial, industrial, architectural, and illustrative photographic work both in the studio and on location. Studio fee.
Prerequisite(s): VAP 320 or permission.

VAP 450 PHOTOGRAPHY INTERNSHIP
Practical applications of photographic skills. Opportunities for advanced development and practical experience in professional working environments. Repeatable up to 6 sem. hrs. for B.F.A. students.
Prerequisite(s): Permission.

VAP 490 SPECIAL PROBLEMS IN PHOTOGRAPHY
Series of assignments to guide independent study in photography, formulated to meet individual needs of the student. Studio fee.
Prerequisite(s): VAP 201; permission.

VAP 498 SENIOR/PROFESSIONAL SEMINAR - PHOTOGRAPHY
Capstone course required of all B.A. and B.F.A. photography majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.
Prerequisite(s): Senior standing or permission.

VAP 499 PORTFOLIO AND PAPER - PHOTOGRAPHY
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.
Prerequisite(s): VAP 498 or permission.

VAR 100 VISUAL ARTS FOUNDATION
Defines and examines the process of beginning a program of education in the visual arts within the larger context of the College of Arts and Sciences and the University. Integrates pragmatic and conceptual issues critical to liberal learning for visual arts students.

VAR 200 INTRODUCTION TO VISUAL ARTS COMPUTING
An introduction to the computer as a tool, and the computer lab as an environment, for visual art production.

VAR 210 VISUAL JOURNAL
Students document and interpret their experience of a given site through the creation of unique journals. They create, collect, edit, and juxtapose visual materials in combination with written commentary and reflections. Studio fee.

VAR 220 VISUAL RESOURCES
Students study a wide variety of visual elements, including many forms of visual communication as well as architecture, public spaces, and museums, in order to understand ways in which art and design play key roles in defining the unique cultural environment of a given site. Studio fee.

VAR 299 SECOND YEAR REVIEW
Requires successful completion of Visual Arts Second Year Review. Eligibility for the review is determined by the department and is based upon a student's progress within the major. Visual Arts Scholarship recipients complete this course during their second year in the major. The review is based upon prior Visual Arts coursework completed and in progress at the time of the review. Required of all Visual Arts majors.

VAR 345 COMPUTER MODELING AND ANIMATION I
Introduction to history, theory, and practice of 3-dimensional computer modeling and animation for video, computer, and print media. Visualization,
Cartesian space, simple polygonal modeling, surface rendering, and animation techniques will be explored. Studio fee.

**Prerequisite(s):** VAP 240 or VAR 200 or permission.

**VAR 440 COMPUTER MODELING AND ANIMATION II**

Detailed study of spline-based modeling, surface rendering and mapping, editing complex animation sequences, motion control, and other topics. Studio fee.

**Prerequisite(s):** VAR 345.

**VAR 445 COMPUTER MODELING AND ANIMATION III**

Individual projects in conceptualization and production of animated sequence from storyboard to final presentation. Studio fee.

**Prerequisite(s):** VAR 440.

**VAR 477 HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approval of the University Honors Program.

**VAR 478 HONORS THESIS PROJECT**

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 3 semester hours each in two separate disciplines in consultation with the department chairpersons.

**Prerequisite(s):** Approved 477 and approval of University Honors Program.

**VAR 490 SPECIAL PROBLEMS**

Advanced, independent study with faculty direction in a visual arts subject or topic that is not covered in existing, discipline-specific courses. Permission. Studio fee.
College of Arts and Sciences

(VAR) Visual Arts

You are currently viewing Art Education, an academic area in Visual Arts. To view academic information for Visual Arts, click here.

(VAE) Art Education (Collapse Description)
The Bachelor of Fine Arts with Teacher Licensure, a B.F.A. (E11A) program, offers students expertise in studio practice, art history, aesthetics, and critical analysis of art. Field experience in the Dayton area allows students to transform theoretical knowledge into classroom practice. Graduates are well prepared for teaching positions in public or private schools, pre-kindergarten through grade 12, as well as for master's degree programs.

Majors/Minors

Major/Minor Name

- Bachelor of Fine Arts with a major in Art Education (FAE)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAE 101</td>
<td>EARLY CHILDHOOD ART EDUCATION</td>
<td>2</td>
</tr>
</tbody>
</table>

Communication Competencies 0-9

Natural Sciences 6

Mathematics (excludes MTH 102, 204, 205) 3

Social and Behavioral Sciences (includes EDT courses) 6

Humanities (includes VAE 470 or 471 or 480 or 483) 6

Philosophy and Religious Studies (must include EDT 305) 12

Introduction to the University: VAR 100 0-1

General Education courses/academic electives to total at least 132-142

Students in the Art Education program are required to maintain a 2.0 cumulative grade point average overall, and a 2.5 cumulative grade point average in teacher education and visual arts courses.

Students are required to pass PRAXIS I and II and a Second Year Review in their studio work.
Acquaints students, especially those seeking Early Childhood Licensure, with the principles and concepts of art and with the various materials and techniques used in artistic expression. Open to all students. Studio fee.

VAE 231  INTRODUCTION TO ART EDUCATION  2
An introduction to the pedagogical, philosophical, and psychological aspects of teaching the arts. Topics will include: technology, national and state standards, history, learners with special needs, reading in the arts, and professional associations. Studio fee.
**Prerequisite(s):** EDT 110, 110L.
**Corequisite(s):** Field experience.

VAE 232  INTEGRATING THE ARTS: VISUAL ARTS  2
Developing knowledge, skills values and attitudes in visual arts for the purpose of integration into classrooms for middle childhood and the adolescent learner. Studio fee.
**Prerequisite(s):** EDT 110, 110L.

VAE 383  FOUNDATION OF ART EDUCATION  3
Introduction to the philosophy, history, and theory of teaching art to prekindergarten through grade eight students with varied needs and abilities. Art education majors only or permission. Studio fee.
**Prerequisite(s):** EDT 110, 110L, 207, 207L; permission.
**Corequisite(s):** Field experience.

VAE 483  TEACHING VISUAL ARTS  3
Study of curriculum, planning, theory, and practice for teaching visual arts to students grades seven through twelve. Art Education majors only. Studio fee.
**Prerequisite(s):** EDT 110, 110L, 207, 207L, 208; VAE 231, 383; permission.
**Corequisite(s):** EDT 305, 340, 340L, 459.

VAE 483W  ELEMENTARY AND SECONDARY SCHOOL ART  3
Workshop to give the student of elementary and secondary education new approaches to teaching studio arts, art criticism, art history, and aesthetics. Studio fee.

VAE 490  SPECIAL PROBLEMS  1 - 5
A course for advanced individual work in art education. Approval based on academic standing and permission of instructor. Repeatable up to 15 sem. hrs. Studio Fee.
College of Arts and Sciences

(VAR) Visual Arts

You are currently viewing Art History, an academic area in Visual Arts. To view academic information for Visual Arts, click here.

(VAH) Art History (Collapse Description)

Art history is the study of art and architecture, produced within specific cultural contexts, as a manifestation of human creativity and as a valuable form of historical documentation. Students learn to appreciate the fundamental and varied roles that the visual arts have played and continue to play in the lives of human beings. Toward this end, students learn how images and objects, identified as art, embody—but also condition and control—social, religious, cultural, economic, political, and gender dynamics.

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Art History (HOA)

Art History

Sem. Hrs.

VAH 101, 201, 202, 203, 485 15
VAR 299 0
VAH electives (300- or 400-level) 21
Major program electives 6

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language 6-8

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: VAR 100 0-1

General Education courses/academic electives to total at least 124

1Major program electives may be chosen, in consultation with an art history advisor, from among the following disciplines and courses: ANT 300, CMM 313, ENG 322, VAF 104, VAF 232, PHL 320, PSY 375 and REL 374. Alternatives to these courses may be elected with the approval of an art history advisor. Major program electives must be at the 300-400 level (except in the case of Fine Arts courses), and they may not be used to satisfy the liberal studies.

2Where appropriate, this credit may apply to other requirements.

Minor in Art History (VAH)

Sem. Hrs.

Art History 18
Select two courses from:

- VAH 201, 202, 203
- VAH electives (300- or 400-level) 12

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAH 101</td>
<td>INTRODUCTION TO THE VISUAL ARTS</td>
<td>3</td>
</tr>
</tbody>
</table>

- Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

| VAH 201 | SURVEY OF ART I                            | 3         |

- Survey of Western art from pre-history through the late medieval period. Open to all students. Fee.

| VAH 202 | SURVEY OF ART II                           | 3         |

- Survey of Western art from the late medieval period through the Baroque. Open to all students. Fee.

| VAH 203 | SURVEY OF ART III                          | 3         |

- Survey of Western art from the eighteenth through the twentieth centuries. Open to all students. Fee.

| VAH 350 | WESTERN ARCHITECTURE                      | 3         |

- Introduction to the history, theory, and practice of Western architecture from pre-history through the contemporary period. Open to all students. Fee.

| VAH 360 | ART HISTORY AND FEMINISM                  | 3         |

- Introduction to feminist approaches to art history and women artists from the medieval period to the present. Open to all students. Fee.

| VAH 370 | AMERICAN ART                               | 3         |

- Introduction to American art and architecture from the colonial period to the present. Open to all students. Fee.

| VAH 382 | HISTORY OF PHOTOGRAPHY I                 | 3         |

- History of the cultural, social, and aesthetic roles of photography from the camera obscura to 1945. Emphasis on the changing practice and perception of the medium as an art form, as social document, and as popular culture. Open to all students. Fee.

| VAH 383 | HISTORY OF VISUAL COMMUNICATION DESIGN    | 3         |

- Study of the significant developments, movements, and figures in the history of visual communication with an emphasis on the twentieth century. Open to all students. Fee.

| VAH 450 | ITALIAN RENAISSANCE ART                   | 3         |

- Introduction to the painting, sculpture, and architecture of Italy between c. 1300 and c. 1550. Fee.

**Prerequisite(s):** VAH 202 or permission.

| VAH 460 | BAROQUE ART                               | 3         |

- Study of the major painters, sculptors, and architects of the seventeenth century. Fee.

**Prerequisite(s):** VAH 202 or permission.

| VAH 470 | NINETEENTH-CENTURY ART I                  | 3         |

- Study of the major artists and movements in European art from Neoclassicism to the beginnings of Realism. Fee.

**Prerequisite(s):** VAH 203 or permission.

| VAH 471 | NINETEENTH-CENTURY ART II                 | 3         |

- Study of the major artists and movements in European art from Realism through Art Nouveau. Fee.

**Prerequisite(s):** VAH 470 or permission.

| VAH 480 | TWENTIETH-CENTURY ART I                   | 3         |

-
Study of the major movements and artists in the painting, sculpture, architecture, and other media from 1900 to 1945. Open to all students. Fee.

VAH 482  HISTORY OF PHOTOGRAPHY II  3
The history of photography from 1945 to the present. Open to all students. Fee.

VAH 483  TWENTIETH-CENTURY ART II  3
Study of the major movements and artists in painting, sculpture, architecture, and other media from 1945 to the present. Open to all students. Fee.

VAH 485  ART HISTORY SEMINAR  3
A seminar and capstone reading and research course concentrating on one art historical topic for detailed analysis. May be repeated as topics change. **Prerequisite(s):** Permission of instructor.

VAH 490  SPECIAL PROBLEMS  1-5
Advanced, independent study with faculty direction in art history. **Prerequisite(s):** One art history course or permission.
College of Arts and Sciences

(VAR) Visual Arts

You are currently viewing Fine Arts, an academic area in Visual Arts. To view academic information for Visual Arts, click here.

(VAF) Fine Arts (Collapse Description)
The Bachelor of Arts (B.A.) with a Major in Fine Arts offers a program of study that introduces the student to a variety of media and approaches to the visual arts. This program combines the richness of a liberal arts education with opportunities to explore several directions in the visual arts.

The Bachelor of Fine Arts (B.F.A.) with a Major in Fine Arts offers a more intensive exploration of selected media and greater depth of study in a more extensive selection of visual arts courses. The Bachelor of Fine Arts (B.F.A) with a Major in Fine Arts with an Illustration Concentration offers an opportunity to combine courses from the fine arts curriculum with applied arts related illustration courses.

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Fine Arts (ART)

<table>
<thead>
<tr>
<th>Fine Arts</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAF 104, 112, 117, 204, 216, (226 or 253), (232 or 240), 498, 499</td>
<td>25</td>
</tr>
<tr>
<td>VAP 101</td>
<td>3</td>
</tr>
<tr>
<td>VAR 299</td>
<td>0</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>VAH 470, 471, 480</td>
<td></td>
</tr>
<tr>
<td>VAF electives (300- or 400-level)</td>
<td>8</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

| Philosophy and Religious Studies | 12 |
| History (excludes VAH courses) | 6 |
| Literature: English or Foreign Language | 3 |
| Foreign Language and/or Additional Arts and/or Humanities (excludes VAR courses) | 3-9 |
| Social Sciences | 12 |
| Mathematics (excludes MTH 102, 204, 205) | 3 |
| Natural Sciences | 11 |

Communication Competencies

0-9

Visual Arts Foundation: VAR 100

1

General Education courses/academic electives to total at least

124

Bachelor of Fine Arts with a major in Fine Arts (STA)

<table>
<thead>
<tr>
<th>Fine Arts</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>79</td>
</tr>
</tbody>
</table>
Select two courses from:
  VAH 201, 202, 203

Illustration Concentration
VAD 218, 245, 312, 321
VAF 104, 112, 117, 204, 216, 226, 232, 304, 326, 370, 380, 404, 470, 498, 499
VAH 383
VAP 101
VAR 200, 299
Select two courses from:
  VAH 201, 202, 203
Visual arts electives
Marketing or Communication

Communication Competencies
Natural Sciences
Mathematics (excludes MTH 102, 204, 205)
Social and Behavioral Sciences
Humanities
Philosophy and Religious Studies
Introduction to the University: VAR 100

General Education courses/academic electives to total at least 128-138

Minor in Fine Arts (VAF)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAF 104</td>
<td>FOUNDATION DRAWING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to basic visual concepts, various drawing media, and approaches to experimental technique. Emphasis on perspective, perceptual awareness, volume in space, and expressive freedom. Studio fee.</td>
<td></td>
</tr>
<tr>
<td>VAF 112</td>
<td>FOUNDATION 2-D DESIGN</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the underlying elements and principles of design as they are used in two-dimensional composition and the creation of illusionistic three-dimensional space.</td>
<td></td>
</tr>
<tr>
<td>VAF 117</td>
<td>FOUNDATION 3-D DESIGN</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to basic principles and practices of design in three dimensions. Emphasis on current theory and construction techniques using a variety of media and methods. Studio fee.</td>
<td></td>
</tr>
<tr>
<td>VAF 204</td>
<td>DRAWING II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Emphasis on figure drawing with work from the nude model and the skeleton. Study of proportion, rendering volume, and developing expressive drawing skills in a variety of drawing media. Model fee. <strong>Prerequisite(s):</strong> VAF 104.</td>
<td></td>
</tr>
</tbody>
</table>
VAF 216  DESIGN AND COLOR
The study of color based on historical and contemporary color theories and
the use of color in expressing and integrating design concepts.
Prerequisite(s): VAF 112 or permission.

VAF 226  PAINTING I
Introduction to basic painting principles, techniques, and materials; still life,
landscape, figure, and abstraction. Studio fee.
Prerequisite(s): (VAF 104, 112, 216) or permission.

VAF 228  WATERCOLOR I
Principles and techniques of transparent watercolor. Emphasis on technical
mastery.
Prerequisite(s): (VAF 104, 112, 216) or permission.

VAF 232  SCULPTURE I
Consideration of forms as a means of developing an understanding of mass,
shape, and control of medium. The use of various materials such as wood,
plaster, and clay, with emphasis on integrating material with personal
expression. Studio fee.

VAF 240  CERAMICS I
Introduction to basic methods of working in clay using coil and slab
techniques. Studio fee.

VAF 253  PRINTMAKING I
Introduction to the traditional printmaking methods of woodcut and intaglio.
Instruction in edition-printing techniques and curating of prints. Studio fee.
Prerequisite(s): (VAF 104, 112) or permission.

VAF 304  DRAWING III
Continuation of work done in VAF 204 with an emphasis on the development
of finished figure drawings. Study of anatomy and the rendering of
convincing volumes in space. Model fee.
Prerequisite(s): VAF 204.

VAF 325  FIGURE PAINTING
Painting from the model with a variety of media. Traditional and
contemporary approaches to the figure. Model fee.
Prerequisite(s): (VAF 204 or 304), 226 or permission.

VAF 326  PAINTING II
Painting with oils or acrylics; continuing study of the principles and
techniques of painting, with emphasis on personal expression and
experimentation. Studio fee.
Prerequisite(s): VAF 226 or 228 or permission.

VAF 328  WATERCOLOR II
Continuing investigation of watercolor techniques, both traditional and
experimental. Still life, figure, landscape, and abstraction.
Prerequisite(s): VAF 228 or permission.

VAF 332  SCULPTURE II
Continued exploration of three-dimensional concepts and materials,
concentrating on wood, stone, and metal. Studio fee.
Prerequisite(s): VAF 232 or permission.

VAF 340  CERAMICS II
Introduction to basic methods of working clay using the wheel. Studio fee.

VAF 353  PRINTMAKING II
Advanced work in woodcut, monoprint and intaglio, including acrylic process
and color etchings. Studio fee.
Prerequisite(s): VAF 253 or permission.

VAF 370  ILLUSTRATION I
Attention to conceptual, visual, and technical development. Exploration of
media and techniques employed by the illustrator in creating images for
Printed communication. Studio fee.  
**Prerequisite(s):** VAF 104, 204.

VAF 380 **ILLUSTRATION II**  
Interpretation and representation of concepts, products, or stories for magazines, books, newspapers, and advertising. Continued technical development with a variety of materials, media, and techniques. Studio fee.  
**Prerequisite(s):** VAF 370.

VAF 404 **DRAWING IV**  
Observational and expressive drawing. Continued work with the figure in combination with a variety of other subject matter. Emphasis on the development of a body of work with a related idea. Model fee.  
**Prerequisite(s):** (VAF 204, 304) or permission.

VAF 428 **PAINTING III**  
Directed advanced studio problems; contemporary issues in painting. Repeatable up to 9 sem. hrs. Studio fee.  
**Prerequisite(s):** VAF 325 or 326 or permission.

VAF 440 **CERAMICS III**  
Introduction to Raku, a 400-year-old Japanese ceramic glaze firing technique adapted for the contemporary potter. Study includes glaze formulation, handbuilding and/or wheel throwing techniques. Studio fee.  
**Prerequisite(s):** (VAF 240, 340) or permission.

VAF 453 **PRINTMAKING III**  
Advanced work in printmaking processes with an emphasis on the production of multi-color editions. Studio fee.  
**Prerequisite(s):** VAF 353.

VAF 470 **ILLUSTRATION III**  
Focus on developing an individual point of view and illustration style. Studio Fee.  
**Prerequisite(s):** VAF 380.

VAF 490 **SPECIAL PROBLEMS**  
A course for advanced individual work in fine arts. Approval based on academic standing and permission of instructor. Repeatable up to 15 sem. hrs.

VAF 498 **SENIOR/PROFESSIONAL SEMINAR--FINE ARTS**  
Capstone course required of all B.A. and B.F.A. fine arts and art education (E11) majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.  
**Prerequisite(s):** Senior standing or permission.

VAF 499 **PORTFOLIO AND PAPER--FINE ARTS**  
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.  
**Prerequisite(s):** VAF 498 or permission.
College of Arts and Sciences
(VAR) Visual Arts

You are currently viewing Photography, an academic area in Visual Arts. To view academic information for Visual Arts, click here.

(VAP) Photography (Collapse Description)
The two degree programs in Photography (B.A. and B.F.A.) offer many approaches to using the medium. Art, journalism, advertising, illustration, and digital imaging are just a few of the fields in which accomplished photographers find rewarding careers.

Bachelor of Arts (B.A.) in Photography emphasizes a traditional liberal arts background with a thorough grounding in photographic practice.

The Bachelor of fine Arts (B.F.A.) in photography allows for greater concentration within photography and related disciplines. Electives allow students to pursue individual interests and goals.

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Arts with a major in Photography (PHO)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photography</td>
<td>45</td>
</tr>
<tr>
<td>VAF 104, 112, (117 or 216)</td>
<td>9</td>
</tr>
<tr>
<td>VAH 382, 482</td>
<td>6</td>
</tr>
<tr>
<td>VAP 101, 201, 302, 410, 498, 499</td>
<td>16</td>
</tr>
<tr>
<td>VAR 299</td>
<td>0</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>VAP 240, 320, 330</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td></td>
</tr>
<tr>
<td>VAR electives (300-400 level)</td>
<td>5</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History (excludes VAH courses)</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes VAR courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

Communication Competencies                | 0-9      |
Introduction to the University: VAR 100  | 0-1      |
General Education courses/academic electives to total at least | 124     |

Bachelor of Fine Arts with a major in Photography (PTY)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photography</td>
<td>72</td>
</tr>
</tbody>
</table>
Photographic Imaging concentration:
- VAF 104, 112, (117 or 216)
- VAH 382, 480, 482
- VAP 101, 201, 302, 410, 498, 499
- VAR 299

Select two courses from:
- VAP 240, 320, 330
- VAH 382, 480, 482
- VAP 101, 201, 302, 320, 330, 340, 410, 498, 499
- VAR 200, 209

Select two courses from:
- VAH 201, 202, 203

Visual arts electives

Digital Imaging concentration
- VAD (215 or 218), 245, (320 or 321)
- VAF 104, 112, (117 or 216)
- VAH 382, 480, 482
- VAP 101, 201, 240, 302, (320 or 330), 340, 410, 498, 499
- VAR 200, 209

Select two courses from:
- VAH 201, 202, 203

Visual arts electives

Communication Competencies
0-9
Natural Sciences
7
Mathematics (excludes MTH 102, 204, 205)
3
Social and Behavioral Sciences
9
Humanities
18
Philosophy and Religious Studies
12
Introduction to the University: VAR 100
0-1

General Education courses/academic electives to total at least 121-131

Minor in Photography (VAP)

<table>
<thead>
<tr>
<th>Photography</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

Select twelve semester hours (300- or 400-level)\(^1\)\(^2\)

\(^1\)Appropriate prerequisites must be completed in addition to the twelve semester hours.

\(^2\)VAH courses may also be counted toward the minor.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAP 101</td>
<td>FOUNDATION PHOTOGRAPHY</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis on learning and exploring the visual language of photographic imagery through a series of creative assignments. Fundamentals of black-and-white still photography: camera function, exposure, film processing, and printing. Students gain sound technical and creative control of the medium. Studio fee.

| VAP 201 | PHOTOGRAPHY II | 3 |

Specific projects to develop personal expression and sustained creative growth, increased technical competence, and greater visual awareness. Students learn more advanced photographic techniques, including negative and printing controls, and different camera formats. Studio fee.

Prerequisite(s): VAP 101 or equivalent.

| VAP 240 | DIGITAL IMAGERY I | 3 |

Introduction to the theory, ethics, aesthetics, and practice of computer image digitizing, enhancement, compositing, and manipulation as applied to digital photography. Some prior knowledge of computers is helpful. Studio fee.
VAP 302  COLOR PHOTOGRAPHY I
Introduction to techniques and aesthetics of color photography; students learn to use transparency and negative films and to make color prints. Studio fee.
Prerequisite(s): VAP 101 or permission.

VAP 320  STUDIO PRACTICE I
Extensive use of large format camera, studio grip equipment, tungsten and electronic flash lighting techniques; still-life and portrait photography in a studio environment. Studio fee.
Prerequisite(s): VAP 201.

VAP 330  STUDIO PRACTICE II
Emphasis on the production of a professional-quality portfolio which will demonstrate advanced knowledge of the studio and image production. Studio fee.
Prerequisite(s): VAP 320.

VAP 331  ALTERNATIVE PHOTOGRAPHY I
Introduction to specialized image production utilizing silver and non-silver photographic processes. Emphasis on technical and aesthetic aspects of alternative photographic practice. Studio fee.
Prerequisite(s): VAP 101.

VAP 332  ALTERNATIVE PHOTOGRAPHY II
Continuing work with alternative silver and non-silver processes. Emphasis on completion of an artist book or installation which demonstrates advanced technical command and aesthetic understanding of the processes employed. Studio fee.
Prerequisite(s): VAP 330.

VAP 340  DIGITAL IMAGERY II
Continuation of the theory and practice of computer imaging and the electronic darkroom; and the incorporation of digital images into other media. Emphasis on digital photography, videographic imaging and the role of digital images in art and society. Studio fee.
Prerequisite(s): VAP 240.

VAP 350  VIEW CAMERA
Extensive experience with the view camera, examination of refined techniques, various applications, and concepts of large format photography. Studio fee.
Prerequisite(s): VAP 201.

VAP 402  COLOR PHOTOGRAPHY II
A continuation of color printing from negatives; completion of individual projects which will demonstrate an advanced understanding of the techniques and aesthetics peculiar to color photography. Studio fee.
Prerequisite(s): VAP 302.

VAP 410  ADVANCED PHOTOGRAPHY
Students with a substantial commitment to photography and with demonstrated technical skills work on individual projects and participate in group critiques and discussion. Studio fee.
Prerequisite(s): VAH 382; VAP 201, 302.

VAP 420  PHOTO JOURNALISM
A variety of ways of using photography as documentation, narrative, and propaganda. Editing of work, layout, and image-text relationships. Personal photographic essay required. Studio fee.
Prerequisite(s): VAP 201.

VAP 430  PROFESSIONAL PHOTOGRAPHIC APPLICATIONS
Problem-solving associated with professional photography; may include commercial, editorial, industrial, architectural, and illustrative photographic work both in the studio and on location. Studio fee.
Prerequisite(s): VAP 320 or permission.

VAP 450  PHOTOGRAPHY INTERNSHIP
1 - 3
Practical applications of photographic skills. Opportunities for advanced development and practical experience in professional working environments. Repeatable up to 6 sem. hrs. for B.F.A. students.

Prerequisite(s): Permission.

VAP 490 SPECIAL PROBLEMS IN PHOTOGRAPHY 1 - 5
Series of assignments to guide independent study in photography, formulated to meet individual needs of the student. Studio fee.
Prerequisite(s): VAP 201; permission.

VAP 498 SENIOR/PROFESSIONAL SEMINAR - PHOTOGRAPHY 3
Capstone course required of all B.A. and B.F.A. photography majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.
Prerequisite(s): Senior standing or permission.

VAP 499 PORTFOLIO AND PAPER - PHOTOGRAPHY 1
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.
Prerequisite(s): VAP 498 or permission.
College of Arts and Sciences

(VAR) Visual Arts

You are currently viewing Visual Communication Design, an academic area in Visual Arts. To view academic information for Visual Arts, click here.

(VAD) Visual Communication Design  (Collapse Description)

The Bachelor of Arts (B.A.) program offers a very flexible opportunity to combine a broad liberal arts education with a strong foundation in visual communication design. In this program it is possible for students to earn a minor, or even a second major, in another discipline within the University.

The Bachelor of Fine Arts (B.F.A.) is an intensive program that combines visual arts foundation courses with the visual communication design curriculum and a liberal arts education. It prepares students for professional careers in graphic and advertising design, electronic media and related new technologies. Attention is given to conceptual and visual problem-solving. Program options include graphic design and computer imaging.

Majors/Minors  (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Visual Communication Design (VCA)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAD (215 or 218), 245, 498, 499</td>
<td>9</td>
</tr>
<tr>
<td>VAF 104, 112, 117, 216</td>
<td>12</td>
</tr>
<tr>
<td>VAH 383</td>
<td>3</td>
</tr>
<tr>
<td>VAP 101</td>
<td>3</td>
</tr>
<tr>
<td>VAR 200, 299</td>
<td>1</td>
</tr>
<tr>
<td>Select two courses from:</td>
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</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td>6</td>
</tr>
<tr>
<td>VAD or approved VAR electives (300- or 400-level)</td>
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</table>

Liberal Studies Curriculum

Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History (excludes VAH courses)</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts (including VAR or other arts)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes VAR courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

Communication Competencies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the University: VAR 100</td>
<td>0-1</td>
</tr>
</tbody>
</table>

General Education courses/academic electives to total at least 124

Bachelor of Fine Arts with a major in Visual Communication Design (VCD)
Visual Communication Design

Design concentration:
- VAD 215, 245, 312, 320, 350, 411, 412, 415, 498, 499
- VAF 104, 112, 117, 204, 216, 226
- VAH 383
- VAP 101
- VAR 200, 299
- VAP elective 6
- Select two courses from:
  - VAH 201, 202, 203 Visual arts electives 18
  - Marketing or Communication 6

Computer Imaging concentration:
- VAD 218, 245, 312, 321, 498, 499
- VAF 104, 112, 117, 204, 216, 226
- VAH 383
- VAP 101, 240, 340
- VAR 200, 299, 345, 440, 445
- Select two courses from:
  - VAH 201, 202, 203 Visual arts electives 18
  - Marketing or Communication 6

Communication Competencies
- Natural Sciences 7
- Mathematics (excludes MTH 102, 204, 205) 3
- Social and Behavioral Sciences 3
- Humanities 9
- Philosophy and Religious Studies 12
- Introduction to the University: VAR 100 0-1

General Education courses/academic electives to total at least 123-129

Minor in Visual Communication Design (VAD)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>VAD 211</td>
<td>FUNDAMENTALS OF VISUAL COMMUNICATION DESIGN</td>
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<tr>
<td>VAD (215 or 218), 245</td>
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<td>5</td>
</tr>
<tr>
<td>VAF 104, 112</td>
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<tr>
<td>VAR 200</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>VAD electives (300- or 400-level)</td>
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</table>

1Or other Visual Arts courses with permission.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>VAD 215</td>
<td>COMPUTER APPLICATIONS-DESIGN</td>
<td>2</td>
</tr>
<tr>
<td>VAD 216</td>
<td>COMPUTER APPLICATIONS-ILLUSTRATION</td>
<td>2</td>
</tr>
</tbody>
</table>

A course for non-majors in the basics of design for communication. Attention to page layout, typography, image, graphic style, and information delivery. Studio fee.

An introduction to drawing and paint software programs and their use in illustration. Studio fee. Prerequisite(s): VAR 200.

An introduction to drawing and paint software programs and their use in illustration. Studio fee. Prerequisite(s): VAR 200.
VAD 245  TYPOGRAPHY I
The study of the design, appearance and arrangement of letters and words. Attention to their importance as both functional and expressive elements in communication messages. Studio fee. 
Prerequisite(s): VAD 215 or 218; VAR 200.

VAD 307  DRAWING FOR GRAPHIC DESIGN
Exploration of materials, procedures, and drawing techniques for design presentations. Studio fee. 
Prerequisite(s): VAD 104.

VAD 312  VISUAL FORM
Investigation of the perceptual and psychological effect of the visual elements-line, shape, value, volume, texture, and color-in visual communication. Exploration of word and image relationships. Studio fee. 
Prerequisite(s): VAF 216.

VAD 318  GRAPHIC DESIGN FOR THREE DIMENSIONS
The application of graphic design principles to packaging, product, exhibition, and environmental design. 
Prerequisite(s): VAD 245, 312; VAF 117.

VAD 320  COMPUTER-AIDED GRAPHIC DESIGN
An exploration of the use of the computer as both a tool and a medium for the design and production of visual communication. Studio fee. 
Prerequisite(s): VAD 215, 245.

VAD 321  COMPUTER-AIDED ILLUSTRATION
An exploration of the use of the computer as both a tool and a medium for the creation and production of illustrations. Studio fee. 
Prerequisite(s): VAD 218, 245.

VAD 344  DESIGN FOR MULTIMEDIA I
An introduction to the design process, including visual principles, aesthetic issues, and diverse applications for multimedia and interactive electronic media. Emphasis is placed on the visual organization of information in these environments. Studio fee. 
Prerequisite(s): (VAD 215 or 218), 245, 360 or permission of instructor.

VAD 345  TYPOGRAPHY II
The advanced study of typographic design. Attention to the aesthetic and informational qualities of type in print and electronic communication. Studio fee. 
Prerequisite(s): VAD 245.

VAD 350  DESIGN PROCESS
Focus on the developmental process of visual communication, including concept development, visualization techniques, presentation formats, and production methods. Studio fee. 
Prerequisite(s): VAD 215, 312, 245.

VAD 360  DESIGN FOR THE INTERNET
Studio course in the design of electronic communications for the Internet, and specifically the World Wide Web. The course will emphasize current technology for information delivery, with significant consideration being given to critical issues in visual communication. Studio fee. 
Prerequisite(s): VAD 215 or 218; 245.

VAD 395  ADVERTISING DESIGN
Emphasis on print advertising, its creation and presentation. Concept development and attention to advertising layouts that carry motivating images and messages to consumers about products, services, or ideas. Studio fee.

VAD 411  GRAPHIC DESIGN I
Study, design, and application of marks, logos, and symbols in visual communication. Attention to effective visual relationships between typographic elements and images in single-page applications. Studio fee. 
Prerequisite(s): VAD 245.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAD 412</td>
<td>GRAPHIC DESIGN II</td>
<td>Continued study of effective visual relationships between typographic elements and images. Emphasis on sequential page design. Studio fee. Prerequisite(s): VAD 411 or permission.</td>
</tr>
<tr>
<td>VAD 414</td>
<td>TRADEMARK DESIGN</td>
<td>Advanced study of marks, logos, and symbols as communication and identification elements. Emphasis on conceiving design marks of identity for small businesses, corporations, institutions, products, and/or services. Studio fee. Prerequisite(s): VAD 411.</td>
</tr>
<tr>
<td>VAD 415</td>
<td>GRAPHIC DESIGN III</td>
<td>The study and design of identification and image systems for products, organizations, institutions, or corporations. Emphasis on continuity in the application of visual communication factors. Studio fee. Prerequisite(s): VAD 412 or permission.</td>
</tr>
<tr>
<td>VAD 444</td>
<td>DESIGN FOR MULTIMEDIA II</td>
<td>Advanced level design for multimedia and interactive electronic media. Emphasis is placed on actual or simulated client-based projects. Prerequisite(s): VAD 344.</td>
</tr>
<tr>
<td>VAD 480</td>
<td>VISUAL COMMUNICATION DESIGN INTERNSHIP</td>
<td>Opportunities for practical experience in professional working environments. Repeatable up to 12 sem. hrs. Prerequisite(s): Permission.</td>
</tr>
<tr>
<td>VAD 490</td>
<td>SPECIAL PROBLEMS</td>
<td>A course for advanced individual work in design or illustration. Approval based on academic standing and permission of instructor. Repeatable up to 15 sem. hrs. Studio fee.</td>
</tr>
<tr>
<td>VAD 498</td>
<td>SENIOR/PROFESSIONAL SEMINAR--VCD</td>
<td>Capstone course required of all B. A. and B.F.A. visual communication design majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee. Prerequisite(s): Senior standing or permission.</td>
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<td>VAD 499</td>
<td>PORTFOLIO AND PAPER--VCD</td>
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