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The character of the University of Dayton is defined by our search for knowledge. Knowledge that changes the way we perceive the world. Knowledge that solves problems and helps make our lives better. Knowledge that creates a more humane and compassionate future for all of us.

Whether you're investing $14 million of the University's endowment or assisting with research that makes space exploration safer, the University of Dayton's academic programs encourage you to engage the world, developing a critical mind and a compassionate heart.

In the undergraduate academic information section, you can continue your search for knowledge — and locate specifics on various academic areas and the programs and courses they offer.
General Information

Of course, there’s more to your academic experiences than just the classes you take. In fact, the University is known for its innovative approach to blurring the lines between learning and living to create a vibrant, engaging community dedicated to moving the world forward.

Whether you’re looking to learn more about admission, student services, student costs and finances, or other facets of life that support your academic career, you’ll find the answers here.

The University of Dayton

Founded in 1850, the University of Dayton is a private, coeducational school founded by the Society of Mary (the Marianists), a Roman Catholic teaching order.* Today, the University of Dayton is recognized as a top-tier national research university and one of the 10 best Catholic universities in the nation.

As a Catholic, Marianist university, our educational philosophy of openness addresses the needs of the whole person – challenging students’ mind, body and spirit through real-world interaction. We ask thought provoking questions and strive to answer them together, in an effort to create a more informed world for everyone. Our faculty members are excellent scholars and instructors, contributing significantly to society and inspiring their students to think critically and create meaningful change.

Inclusiveness of all peoples, cultures and religions defines the core of our Marianist tradition, and the University draws students of many faiths and economic, ethnic and social backgrounds from across the country and around the world.

At the University, we blur the line between living and learning to create a vibrant, engaging community dedicated to improving the world. Through student clubs, campus recreation, education abroad, research, service-learning and career preparation, students are encouraged to engage the world, developing a critical mind and compassionate heart.

* The 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.

Mission

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 Hall, the largest building in Dayton, and called it "Zehler's Folly." The new "college department" moved into it in 1871. (St. Mary 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 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.

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 was held; its classes, like those of the law college, were open to women as well as men.

The 1930s, with the Great Depression, were in many ways a time of retrenchment for the University of Dayton as for most other American schools. The Dayton Marianists had survived cholera, smallpox, and influenza, wars, fire and flood, and (in 1924) a Ku-Klux-Klan cross-burning on the campus. In 1935, even as the University turned its preparatory school functions over to Chaminade High School and graduated what was to be its last class in law for almost forty years, it inaugurated a college for women, with sisters of Notre Dame in charge of twenty-seven entering female students. Two years later, the college for women opened; all divisions opened to women, and the University became fully coeducational.

Enrollment had passed a thousand when World War II broke out. By 1950, with the return of the veterans, it reached more than 3,500. In 1967, it topped 10,000. But then, with the expansion of a community college and the establishment of a state university nearby, enrollment declined, and the resulting retrenchment was exacerbated by rising inflation and the energy crisis. Nor did the social turbulence and activism of the late 1960s and early 1970s bypass the University of Dayton. Some students and faculty protested against the Vietnam War, compulsory ROTC, and defense-related research activities. They campaigned also for changes in the curriculum, seeking more opportunities for meeting personal needs and goals. In response, the University gave greater responsibility to students for their own academic decisions, and it initiated interdisciplinary programs, self-directed learning, and various experimental courses and methods. Meanwhile, the profile of the student body changed. The 1960s saw significant increases in female and minority students. In the 1970s, there was a shift to a largely residential student body, and at the same time many more "nontraditional" (older) students matriculated. By the mid-1970s, total enrollment steadied at more than 10,000, with about 6,000 full-time undergraduates.

The University held its first general public fund-raising campaign in order to erect Wohleben Hall in 1958 and Sherman Hall in 1960. Both campus and off-campus residences, residence halls, apartments, and houses were added and improved as such emergency accommodations as surplus Army barracks and an adapted Army hospital (renamed the West Campus) were phased out.

Long-range planning has helped integrate new buildings and old and made the campus more livable by increasing its beauty as well as its efficiency. In 1986, old and new combined in the design of the Anderson Center between Rike Hall and Miriam Hall. When fire ravaged St. Joseph Hall in 1987, the University was able to rebuild and restore it without harming the architectural integrity of that historic corner of campus. Keeping pace with the needs of the University, the Jesse Philips Humanities Center opened in 1993, and Joseph E. Keller Hall was built for the School of Law in 1997. In addition, the University has renovated Miriam Hall, converted its child care center into an early childhood demonstration school called the Bombeck Family Learning Center and completed the first phases of a modern Science Center. In 2002, the University of Dayton Arena underwent a modernization, placing it among the best venues for basketball in the country. The Donohue Basketball Center, a major addition to the UD Arena giving UD a premier basketball facility for both playing and training, was dedicated in 1998.

As the University of Dayton entered the 21st century, it built modern student facilities, including ArtStreet and Marianist Hall (2004) and RecPlex (2006).

The edifices are not the only changes on campus. In 1960, the University reorganized academically and administratively. Administrative changes saw the formation of the College of Arts and Sciences from what had been two separate units. Other divisions became the Schools of Business Administration, Education and Engineering. In 1970, the University charter was amended and lay members now joined the Marianists on the Board of Trustees. In 1974, the School of Law reopened.

Academically, the University has continued to expand and enrich its offerings and support services, especially since mid-century. Graduate studies, abandoned during World War II, resumed in 1960, with the School of Education leading the way. In 1969, the Department of Biology inaugurated the first doctoral program since 1928. The School of Engineering introduced two doctoral programs in 1973, and in 1992, the first doctoral degrees in educational leadership were awarded. In 1997, the Board of Trustees approved a doctoral program in theology with a focus on the Catholic experience in the United States. It was the first such doctoral program on a Catholic campus nationally.

In 1975, the Marian Library, which had grown to international renown since its inception in 1943, founded the International Marian Research Institute (IMRI), which was incorporated in 1984 as a branch of the Marianum in Rome. IMRI is empowered to confer licentiate and doctoral degrees in theology, with a specialization in Mariology. The Marian Library now holds the world's largest collection of print materials on Mary, the mother of Jesus.

For all undergraduates, a general education plan was adopted in 1983 to foster integration of the liberal arts in a professional education. In 1990, the Academic Senate approved a revision of the general education requirements that called for an integrated base of four humanities courses complemented by clusters of other courses, requiring various disciplines to focus on a single theme.
The University of Dayton has always maintained a tradition of innovation. In 1874, St. Mary’s Institute’s new Play House gymnasium was the only one of its kind in Ohio, and it is probable that the first organized basketball game in the state took place there. A system of elective studies was inaugurated in 1901. In 1924, the University was the first school to be granted a charter by the National Aeronautical Association. It was one of the first in the nation to offer a course in biophysics (1935). In 1948, it was a pioneer in student ratings of professors, and in 1952, it invited persons over 60 to attend its evening classes as guests. Its graduate program in laser optics was one of the earliest in the country. It was one of the first educational institutions to adopt electronic data-processing equipment and to offer degrees in computer science. In 1999, the University of Dayton was the first in the nation to offer an undergraduate degree program in human rights. The University is currently developing partnerships with top universities in China, including Nanjing University, one of that nation’s leading research institutions.

More than just a breeding ground for academic excellence, the University also responds to the needs of society and the region.

Sponsored research at the University began in 1949 with a few faculty members and student assistants doing part-time research for industry and government agencies. In 1956, the University of Dayton Research Institute (UDRI) was formed to consolidate the administration of the growing research activities. Annual research volume has increased from $3,821 in 1949, to more than $85 million today. The University of Dayton ranks second in the nation in funding for materials research.

Named for Brother Raymond L. Fitz, S.M., the University’s longest-serving president, the Fitz Center for Leadership in Community, founded in 2002, connects students and faculty to the community through service learning, social justice and ongoing involvement.

Among the University’s other community collaborations is the Dayton Early College Academy, a public high school founded in partnership with the Dayton Public Schools. DECA, whose first class graduated in 2007, is the only charter school in the country operated by a Catholic university.

The University long-range plans include incorporating nearly 50 acres purchased from NCR in 2005. The land, lying between the academic core of campus and the Arena Sports Complex, increased the size of campus by nearly a quarter.

From its humble roots as a private boarding school for boys, the University of Dayton today ranks among the best Catholic universities in the country. It is the largest independent university in Ohio and draws students from around the country and the world.

**Statement of Purpose**

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.

**Accreditation**

The University of Dayton is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools http://www.ncahlc.org/ HLC phone: (312) 263-0456.

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

- The American Bar Association (ABA) for the School of Law
- The Association to Advance Collegiate Schools of Business (AACSB International) for the baccalaureate, accounting and Master of Business Administration programs of the School of Business Administration
- The Commission on Accreditation for Dietetics Education (CADE) for the didactic program in dietetics
- The Commission on Accreditation in Physical Therapy Education (CAPTE)
- The Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- The Engineering Accreditation Commission of ABET (Accreditation Board for Engineering and Technology), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, ABET telephone: (410) 347-7700, for programs in chemical engineering, civil engineering, computer engineering, electrical engineering, and mechanical engineering
- The Masters in Psychology Accreditation Council (MPAC) for the Master of Arts program in Clinical Psychology
- The National Association of Schools of Art and Design (NASAD)
- The National Association of Schools of Music (NASM)
The University has the approval of the following:

- The American Chemical Society
- The Association of American Law Schools
- The Counselor, Social Worker & Marriage and Family Therapist Board
- The League of Ohio Law Schools
- The National Association for Music Therapy
- The Ohio Board of Regents
- The State of Ohio Department of Education

Institutional Memberships

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 Catholic Colleges and Universities
- The Association of College and University Housing Officers
- 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

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
University of Dayton

• 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 Laws
• Master of Mathematics Education
• 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
• Master of Science in Renewable and Clean Energy
• Master in the Study of Law
• 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
• Doctor of Physical Therapy

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
• Bachelor of General Studies.

Academic majors offered by the College include:

• American Studies
• Applied Mathematical Economics
• Art Education
• Art History
• Biochemistry
• Biology
• Chemistry
• Communication Management

College of Arts and Sciences offers Masters degree programs in:

• Biology
• Chemistry
• Communication
• Computer Science
• English
• Applied Mathematics
• Pastoral Ministry
• Psychology
• Public Administration
• 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
• 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 Physiology
• Exercise Science
• Pre-Physical Therapy
• 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)
• Doctor of Philosophy in Educational Leadership
• Doctor of Physical Therapy

These programs are designed to prepare school administrators, school counselors, school psychologists, and teachers for both public and private schools nationwide, as well as preparing physical therapists for practice in a clinical setting.

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
• 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
• Bachelor of Science in Engineering Technology with specialties in:
  • Electronic and Computer Engineering Technology
  • Industrial Engineering Technology
  • Manufacturing Engineering Technology
  • 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
• Master of Science in Renewable and Clean Energy
• Doctor of Engineering
• Doctor of Philosophy in Engineering
• 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 Schools of Business, Education, Engineering and Law, and through the College of Arts and Sciences.

Doctoral programs are offered in:
• Biology
• Theology
• Aerospace Engineering
• Electrical Engineering
• Materials Engineering
• Mechanical Engineering
• Electro-Optics
• Educational Leadership

Both Ph.D. and D.E. (i.e., Doctor of Engineering) degrees are offered through the School of Engineering. A Doctor of Physical Therapy program is offered through the School of Education and Allied Professions.

The College of Arts and Sciences offers master’s programs in:
• Biology
• Chemistry
• Communication
• Computer Science
• English
• Applied Mathematics
• Financial Mathematics
• Mathematics Education (in collaboration with the Department of Teacher Education)
• Pastoral Ministry
• Psychology
• Public Administration
• Theological Studies

A concentration in Music Education is offered through and in collaboration with the School of Education and Allied Professions. Individual interdisciplinary studies and several post-baccalaureate certificate programs are also available.

The School of Business Administration offers a Master’s of Business Administration with concentrations in:
• Accounting
• Business Intelligence
• Entrepreneurship
• Finance
• International Business
• Management Information Systems
• Operations Management
• Marketing
• Technology-Enhanced Business/e-Commerce

A combined program offering a B.S. in Accounting and an MBA is available. The J.D./MBA joint degree program is also offered to students meeting the admission requirements of both the Law School and the School of Business Administration. In addition, the Post-MBA Certificate Program offers the opportunity for MBA graduates to earn a graduate-level professional certificate in an approved concentration field. A post-baccalaureate certificate in Cyber-Security Management is also available.

The School of Education and Allied Professions offers a Master of Science in Education (MSE) degree, with programs in:

The School also offers an Educational Specialist degree in Educational Leadership and School Psychology, as well as a graduate licensure program.

The School of Engineering offers the Master of Science degree in:
• Aerospace Engineering
• Chemical Engineering
• Civil Engineering
• Electrical Engineering
• Electro-Optics
• Engineering
• Engineering Management
• Engineering Mechanics
• Materials Engineering
• Management Science

The School of Law offers the Master of Laws (LL.M.), the Master in the Study of Law (M.S.L.) and the Juris Doctor (J.D.) degrees.

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 spring term, also fifteen weeks, begins in January and ends early in May. The third, or 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 spring 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 spring term, when the employment market is not crowded with other college students.

Academic Calendar 2012-2013

Subject to change

FALL 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>Mon, Aug 6</td>
<td>Degrees conferred-- no ceremony</td>
</tr>
<tr>
<td>TBD</td>
<td>New Faculty Orientation</td>
</tr>
<tr>
<td>Sat-Tue, Aug 18-21</td>
<td>New Student Orientation</td>
</tr>
<tr>
<td>Tue, Aug 21</td>
<td>New Student Convocation</td>
</tr>
<tr>
<td>Tue, Aug 21</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Wed, Aug 22</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, Aug 28</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Sep 3</td>
<td>Labor Day-- no classes</td>
</tr>
<tr>
<td>Tue, Sep 11</td>
<td>Last day to change Second Session and full Summer Term grades</td>
</tr>
<tr>
<td>Wed, Sep 12</td>
<td>Last day to drop classes without record</td>
</tr>
<tr>
<td>Wed, Oct 3</td>
<td>Mid-Term Break begins after last class</td>
</tr>
<tr>
<td>Mon, Oct 8</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Mon, Oct 15</td>
<td>Last day for Graduate and Doctoral students to apply for December 2012 graduation</td>
</tr>
<tr>
<td>Wed, Oct 17</td>
<td>First-Year students’ midterm progress grades due by 4:00 p.m.</td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Fri-Sun, Oct 19-21</td>
<td>Family Weekend</td>
</tr>
<tr>
<td>Thu, Nov 1</td>
<td>Last day for Undergraduate students to apply for May 2013 graduation</td>
</tr>
<tr>
<td>Mon, Nov 5</td>
<td>Last day to drop classes with a record of W</td>
</tr>
<tr>
<td>Tue, Nov 20</td>
<td>Thanksgiving recess begins after last class</td>
</tr>
<tr>
<td>Sat, Nov 24</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Mon, Nov 26</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Thu, Dec 6</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Fri, Dec 7</td>
<td>Feast of the Immaculate Conception/ Christmas on Campus-- no classes</td>
</tr>
<tr>
<td>Sat, Dec 8</td>
<td>Study Day</td>
</tr>
<tr>
<td>Sun, Dec 9</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, Dec 10-14</td>
<td>Exams-- Fall Term ends after final examinations</td>
</tr>
<tr>
<td>Sat, Dec 15</td>
<td>Diploma Exercises at 9:45 a.m.</td>
</tr>
<tr>
<td>Tue, Dec 18</td>
<td>Grades due by 9 a.m. Deficiency slips due in Deans’ offices</td>
</tr>
<tr>
<td>Thu, Dec 20</td>
<td>Grades posted</td>
</tr>
<tr>
<td>Tue, Jan 22</td>
<td>Last day to change Fall Term grades</td>
</tr>
</tbody>
</table>

**CHRISTMAS BREAK**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun, Dec 16</td>
<td>Christmas Break begins</td>
</tr>
<tr>
<td>Sun, Jan 13</td>
<td>Christmas Break ends</td>
</tr>
</tbody>
</table>

**SPRING 2013**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, Jan 11</td>
<td>Spring New Student Orientation</td>
</tr>
<tr>
<td>Fri, Jan 11</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Mon, Jan 14</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Fri, Jan 18</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Jan 21</td>
<td>Martin Luther King, Jr. Day-- no classes</td>
</tr>
<tr>
<td>Tue, Jan 22</td>
<td>Last day to change Fall Term grades</td>
</tr>
<tr>
<td>Fri, Feb 1</td>
<td>Last day for Graduate and Doctoral students to apply to apply for May 2013 graduation</td>
</tr>
<tr>
<td>Mon, Feb 4</td>
<td>Last day to drop classes without record</td>
</tr>
<tr>
<td>Wed, Feb 27</td>
<td>Mid-Term Break begins after last class</td>
</tr>
<tr>
<td>Mon, Mar 4</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Wed, Mar 13</td>
<td>First-Year students’ midterm progress grades due by 4:00 p.m.</td>
</tr>
<tr>
<td>Fri, Mar 15</td>
<td>Last day for Undergraduate students to apply for August 2013 graduation</td>
</tr>
<tr>
<td>Wed, Mar 27</td>
<td>East recess begins after last class</td>
</tr>
<tr>
<td>Mon, Apr 1</td>
<td>Easter Monday-- no day classes -- classes resume at 4:30 p.m.</td>
</tr>
<tr>
<td>Mon, Apr 1</td>
<td>Last day for Undergraduate students to apply for December 2013 graduation</td>
</tr>
<tr>
<td>Wed, Apr 3</td>
<td>Last day to drop classes with record of W</td>
</tr>
<tr>
<td>Fri, April 26</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Sat, Apr 27</td>
<td>Study Day</td>
</tr>
<tr>
<td>Sun, Apr 28</td>
<td>Study Day</td>
</tr>
</tbody>
</table>

**SUMMER 2013-- FIRST SESSION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, May 10</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Sat, May 13</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 14</td>
<td>Last day for Summer Term- First Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Thu, May 16</td>
<td>Last day for late full Summer Term registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Wed, May 22</td>
<td>Last day to drop without record form First Session classes</td>
</tr>
<tr>
<td>Mon, May 27</td>
<td>Memorial Day -- no classes</td>
</tr>
<tr>
<td>Mon, Jun 10</td>
<td>Last day to drop with record of W from First Session classes</td>
</tr>
<tr>
<td>Mon, Jun 10</td>
<td>Last day to change Spring Term grades</td>
</tr>
<tr>
<td>Fri-Sat, Jun 21-22</td>
<td>Exams-- full Summer Term classes do not meet First Session end after final examinations</td>
</tr>
<tr>
<td>Tue, Jun 25</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans’ offices</td>
</tr>
<tr>
<td>Thu, Jun 27</td>
<td>Grades posted</td>
</tr>
<tr>
<td>Mon, Jul 1</td>
<td>Last day for Graduate and Doctoral students to apply for August 2013 graduation</td>
</tr>
<tr>
<td>Wed, Jul 3</td>
<td>Last day to drop without record from full Summer Term classes</td>
</tr>
<tr>
<td>Tue, Jul 30</td>
<td>Last day to change First Session grades</td>
</tr>
</tbody>
</table>

**SUMMER 2013-- SECOND SESSION**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, Jun 21</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Sat, Jun 22</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, Jun 24</td>
<td>Second Session classes begin</td>
</tr>
<tr>
<td>Tue, Jun 25</td>
<td>Last day for late Summer Term- Second Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Jul 1</td>
<td>Last day for Graduate and Doctoral students to apply for August 2013 graduation</td>
</tr>
<tr>
<td>Wed, Jul 3</td>
<td>Last day to drop without record from Second Session and full Summer Term classes</td>
</tr>
<tr>
<td>Thu, Jul 4</td>
<td>Independence Day-- no classes</td>
</tr>
<tr>
<td>Mon, Jul 15</td>
<td>Last day to drop with record of W from Second Session and full Summer Term classes</td>
</tr>
<tr>
<td>Tue, Jul 30</td>
<td>Last day to change First Session grades</td>
</tr>
<tr>
<td>Fri-Sat, Aug 2-3</td>
<td>Exams-- Second Session and full Summer Term end after final examinations</td>
</tr>
<tr>
<td>Mon, Aug 5</td>
<td>Degrees conferred-- no ceremony</td>
</tr>
<tr>
<td>Tue, Aug 6</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Dean’s offices</td>
</tr>
<tr>
<td>Thu, Aug 8</td>
<td>Grades posted</td>
</tr>
</tbody>
</table>
### Academic Calendar 2013-2014

#### FALL 2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon, Aug 5</td>
<td>Degrees conferred--no ceremony</td>
</tr>
<tr>
<td>TBD</td>
<td>New Faculty Orientation</td>
</tr>
<tr>
<td>Sat-Tue, Aug 17-20</td>
<td>New Student Orientation</td>
</tr>
<tr>
<td>TBD</td>
<td>Upperclass students move into UD Housing</td>
</tr>
<tr>
<td>Tue, Aug 20</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Wed, Aug 21</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, Aug 27</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Sep 2</td>
<td>Labor Day-- no classes</td>
</tr>
<tr>
<td>Tue, Sep 10</td>
<td>Last day to change Second Session and full Summer Term grades</td>
</tr>
<tr>
<td>Wed, Sep 11</td>
<td>Last day to drop classes without record</td>
</tr>
<tr>
<td>Mon, Oct 9</td>
<td>Mid-Term Break begins after last class</td>
</tr>
<tr>
<td>Mon, Oct 14</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, Oct 15</td>
<td>Last day for Graduate and Doctoral students to apply for December 2013 graduation</td>
</tr>
<tr>
<td>Wed, Oct 16</td>
<td>First-Year students’ midterm progress grades due by 4:00 p.m.</td>
</tr>
<tr>
<td>TBD</td>
<td>Family Weekend</td>
</tr>
<tr>
<td>Fri, Nov 1</td>
<td>Last day for Undergraduate students to apply for May 2014 graduation</td>
</tr>
<tr>
<td>Mon, Nov 4</td>
<td>Last day to drop classes with record of W</td>
</tr>
<tr>
<td>Tue, Nov 26</td>
<td>Thanksgiving recess begins after last class</td>
</tr>
<tr>
<td>Sat, Nov 30</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Mon, Dec 2</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Thu, Dec 5</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Fri, Dec 6</td>
<td>Feast of the Immaculate Conception/Christmas on Campus-- no classes</td>
</tr>
<tr>
<td>Sat, Dec 7</td>
<td>Study Day</td>
</tr>
<tr>
<td>Sun, Dec 8</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, Dec 9-13</td>
<td>Exams-- Fall Term ends after final examinations</td>
</tr>
<tr>
<td>Sat, Dec 14</td>
<td>Diploma Exercises at 9:45 a.m.</td>
</tr>
<tr>
<td>Tue, Dec 17</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans’ offices</td>
</tr>
<tr>
<td>Thu, Dec 19</td>
<td>Grades posted</td>
</tr>
<tr>
<td>Tue, Jan 19</td>
<td>Last day to change Fall Term Grades</td>
</tr>
</tbody>
</table>

#### CHRISTMAS BREAK

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun, Dec 15</td>
<td>Christmas Break begins</td>
</tr>
<tr>
<td>Sun, Jan 12</td>
<td>Christmas Break ends</td>
</tr>
</tbody>
</table>

#### SPRING 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, Jan 10</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Mon, Jan 13</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Fri, Jan 17</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Jan 20</td>
<td>Martin Luther King, Jr. Day -- no classes</td>
</tr>
<tr>
<td>Tue, Jan 21</td>
<td>Last day to change Fall Term grades</td>
</tr>
<tr>
<td>Sat, Feb 1</td>
<td>Last day for Graduate and Doctoral students to apply for May 2014 graduation</td>
</tr>
<tr>
<td>Mon, Feb 3</td>
<td>Last day to drop classes without record</td>
</tr>
<tr>
<td>Wed, Mar 5</td>
<td>Mid-Term Break begins after last class</td>
</tr>
<tr>
<td>Mon, Mar 10</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Wed, Mar 12</td>
<td>First-Year students’ midterm progress grades due by 4:00 a.m.</td>
</tr>
<tr>
<td>Sat, Mar 15</td>
<td>Last day for Undergraduate students to apply for August 2014 graduation</td>
</tr>
<tr>
<td>Tue, Apr 1</td>
<td>Last day for Undergraduate students to apply for December 2014 graduation</td>
</tr>
<tr>
<td>Wed, Apr 2</td>
<td>Last day to drop classes with record of W</td>
</tr>
<tr>
<td>Wed, Apr 16</td>
<td>Easter Recess begins after last class</td>
</tr>
<tr>
<td>Mon, Apr 21</td>
<td>East Monday-- no day classes-- classes resume at 4:30 p.m.</td>
</tr>
<tr>
<td>Fri, Apr 25</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Sat, Apr 26</td>
<td>Study Day</td>
</tr>
<tr>
<td>Sun, Apr 27</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, Apr 28-May 2</td>
<td>Exams-- Spring Term ends after final examinations</td>
</tr>
<tr>
<td>Sat, May 3</td>
<td>Doctoral/Graduate Commencement Exercises- Time TBD</td>
</tr>
<tr>
<td>Sun, May 4</td>
<td>Undergraduate Commencement Exercises at 9:45 a.m.</td>
</tr>
<tr>
<td>Tue, May 6</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans’ offices</td>
</tr>
<tr>
<td>Thu, May 8</td>
<td>Grades posted</td>
</tr>
<tr>
<td>Mon, Jun 9</td>
<td>Last day to change Spring Term grades</td>
</tr>
</tbody>
</table>

#### SUMMER 2014-- FIRST SESSION

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri, May 9</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Sat, May 10</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, May 12</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 13</td>
<td>Last day for late Summer Term-First Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Thu, May 15</td>
<td>Last day for late full Summer Term registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Wed, May 21</td>
<td>Last day to drop without record from First Session classes</td>
</tr>
<tr>
<td>Mon, May 26</td>
<td>Memorial Day-- no classes</td>
</tr>
<tr>
<td>Mon, Jun 9</td>
<td>Last day to drop with record of W from First Session classes</td>
</tr>
<tr>
<td>Mon, Jun 9</td>
<td>Last day to change Spring Term grades</td>
</tr>
<tr>
<td>Fri-Sat, Jun 20-21</td>
<td>Exams-- full Summer Term classes do not meet First Session ends after final examinations</td>
</tr>
<tr>
<td>Tue, Jun 24</td>
<td>Grades due by 9:00 a.m. Deficiency slips due in Deans’ offices</td>
</tr>
</tbody>
</table>
The Libraries are members of OhioLINK, a cooperative venture of university and college libraries and the Ohio Board of Regents. OhioLINK partners have created a common information network providing rapid access to and delivery of over 49 million items 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. Access to the Libraries’ Web page databases, and online catalog is available at http://www.udayton.edu/libraries/.

The Marian Library (seventh floor of the Roesch Library) is recognized as the world’s largest collection of published materials on the Virgin Mary. Its comprehensive collection embraces the works treating the Virgin Mary as found in Scripture, tradition, doctrine, history, art, popular culture, spirituality, and devotion. The multi-language collection includes over 95,000 books (6,000 printed before 1800), 200 periodicals, a clipping file of over 60,000 items, a Marian stamp collection, a Christmas creche collection, statues, medals, postcards, and works of art.

Publications include:

- Marian Studies (papers given at the annual meeting of the Mariological Society of America)
- Marian Library Studies (original research on Marian topics)
- The twice-yearly Marian Library Newsletter

United with the Marian Library is the International Marian Research Institute (IMRI), affiliated with the Pontifical Theological Faculty Marianum in Rome. IMRI offers courses in Marian studies as well as pontifical academic degrees (Licentiate and doctorate) in theology with specialization in Mariology. The Marian Library’s collections can be accessed via the University Libraries’ online catalog. Hours, an explanatory video, and information on current art exhibits can be found on the Mary Page at http://campus.udayton.edu/mary/.

The University of Dayton School of Law Library is located in Joseph E. Keller Hall. Its collection contains over 190,000 volumes and over 676,000 physical units of microforms. The open-stack arrangement of the Law Library permits easy access to all materials. For additional information see http://community.udayton.edu/law/library/.

The Brother Louis J. Faerber, S.M., Curriculum Materials Center (CMC) houses the SOEAP’s specialized education collections and is located in Chaminade Hall. Its collection includes:

- Professional education books and journals
- Children and young adult literature
- Elementary and secondary textbooks
- Standardized assessments
- Teaching aids (games & manipulatives)
- DVD’s
- CD’s
- Videocassettes
- Audiocassettes
- LP records
- Charts
- Material kits
- Other resources

The CMC also houses research projects, theses, and dissertations completed for the SOEAP’s respective graduate programs. A copier, four
networked computer workstations, the Ellison Press, Accu-Cut Machine, and an assortment of letter and shape dies are available for student use. Additional information is available at www.udayton.edu/education/cmc/index.php.

Off-Campus Academic Centers

The University of Dayton maintains an off-campus center for graduate study in Education & Allied Professions (Columbus). All programs and courses are closely supervised by the dean of Education & Allied Professions and the dean of the Graduate School. Most of these courses are taught by the faculty member teaching the same course on the main campus.

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.

As part of a comprehensive strategy for adult education through Graduate, Professional and Continuing Education, Special Programs and Continuing Education especially 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 and Scholar Services, located in the Center for International Programs, serves students, faculty, staff, and visiting scholars from other countries who are studying or working 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.

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. 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 go to www.soche.org. (http://www.soche.org)

The consortium of 22 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
- Other areas

Consortium member schools include:
- Air Force Institute of Technology
- Antioch College
- Antioch University Midwest
- Cedarville University
- Central Michigan University
- Central State University
- Clark State Community College
- Edison State Community College
- Kettering College of Medical Arts
- The Kettering Foundation
- Miami-Jacobs College
- Miami University-Middletown
- Miami University Regions
- Sinclair Community College
- Southern State Community College
- United Theological Seminary
- Union Institute & University
- University of Dayton
- Urbana University
- Wilberforce University
- Wilmington College
- Wittenberg University
- Wright State University

Student Life and Services

At the University of Dayton, you’re not alone. And not just because you’ll make friends at every turn, but because our faculty, staff and community are eager to help you along your path. To guide you, advise you and even help you land a job after graduation.

As a Catholic, Marianist institution, our educational philosophy addresses the needs of the whole person: mind, body and spirit. And you’ll find a plethora of offices are here to support you every step of the way.

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 VII of the Civil Rights Act of 1964, 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.

Campus Ministry

Faith formation and reflective religious dialogue play important roles in the education and development of the whole person at the University of Dayton. As a primary agent in faith formation at UD, Campus Ministry, inspired by the University’s Marianist tradition, forms persons and communities in a lived faith, expressed in worship, in challenging and compassionate relationships, and in commitment to justice and service.
With thirty staff persons and a wide variety of programs, UD has one of the largest and most active campus ministry programs anywhere. Informed by the Roman Catholic Tradition, the vast majority of our programs appeal to students from different Christian backgrounds and those of other faiths. A full-time protestant campus minister serves as a part of the campus ministry team. Campus Ministry also connects students from other faith traditions to their respective faith communities off campus. A number of independent, religiously based student organizations exist on campus. Together, these provide a range of options and opportunities for students to be a part of a faith community during their time at UD.

Our primary activities for students are outlined below.

Residence Life Ministry
Each residential area has campus ministers who actively engage students in faith based activities. Student leaders guide participation in activities such as faith sharing groups, bible studies, retreats, Mass, service and social opportunities, and other prayer experiences. In these and other ways, campus ministry is able to accompany, encourage and support students in areas of leadership, personal growth, and spiritual development.

Center for Social Concern
Campus Ministry’s Center for Social Concern is committed to faith-based social justice education, including direct service to the poor and marginalized, work on behalf of social justice and changing unjust structures in society that oppress and marginalize human beings. The Center for Social Concern provide regular BreakOut Trips, Summer Immersion Trips, and 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. At the heart of it all is a wide array of opportunities to reflect on the service and justice work in the context of faith.

Retreats and Faith Communities
Over twenty retreats are offered each year for UD students. The retreats vary in size, style, theme, and focus to provide opportunities for faith development in many ways. There are quiet relaxing guided retreats, wilderness retreats, retreats specifically for first-year students and graduate students, large community focused retreats, interdenominational retreats, and more that foster faith development through activities, discussion, and prayer. Most retreats are led by student teams who prepare through weekly meetings.

Students also join small Christian communities called PORCH. These student led groups meet regularly and focus in unique ways including faith sharing, scripture study, and theological reflection.

Campus Ministry’s Program for Christian Leadership offers Callings, a pre-orientation experience for incoming first year students focused on fostering faith, vocation, and leadership for new UD students as well as PORCH communities, retreat and leadership experiences.

Liturgies and Prayer
Students, faculty, and staff are active in the liturgical life of the University as lectors, Eucharistic ministers, music ministers, Mass coordinators, and hospitality ministers at both daily and Sunday celebrations of the Eucharist. The sacrament of Reconciliation and Eucharistic adoration are scheduled regularly, and during the seasons of Advent and Lent, sung weekly Vespers are offered along with communal Reconciliation services. An interdenominational Christian worship service is held every Sunday during the academic year. Other opportunities for worship are available in the local community.

Campus Recreation
The Department of Campus Recreation is located on the "M" level of the RecPlex. The RecPlex, which opened in January 2006, houses a state of the art recreation facility. Full time undergraduate students, as part of their basic university fee, are eligible to use the RecPlex with their UD student ID. The facility may be used by graduate students who purchase a RecPlex Membership. Highlights of the building include:

- Main Gym with four full sized wood court basketball courts and three racquetball courts, one of which can be converted for squash.
- MAC Gym with two rubberized courts surrounded by a professional grade dasher board system adequately sized to play a variety of sports including tennis, indoor soccer, basketball, volleyball, and floor hockey.
- Aquatic Center with a 25 yard eight lane lap pool, four foot deep vortex leisure pool, diving well, and an eight-person spa.
- Fitness Studios A, B, and C which are used for a variety of instructional and group fitness classes.
- 10,000 sq. ft. Fitness Floor is home to 80 cardio machines and 70 strength training stations.
- Wellness Assessment Lab from which services such as athletic training, massage, and personal training consultation are offered.
- Four lane 1/8 of a mile rubberized jogging track.

Campus Recreation is excited to feature a new 5+ acre outdoor facility due to the installation of an infill turf surface. This new resource matches the quality of the RecPlex and provides year round access and a consistent surface for sports programming.

Campus Recreation offers many programs and facilities for students, including:

- Intramural Sports
- Sport Clubs
- Aquatics
- Fitness Programs
- Climbing Wall
- Strength and Cardio Equipment

Campus Recreation provides a variety of intramural activities in which anyone can find exercise surrounded by a spirit of fun and competition which is uniquely enhanced by our Marianist values. Activities include:

- Softball
- Flag Football
- Indoor and Outdoor Soccer
- Volleyball
- Basketball
- Dodge-ball
- Bowling
- Racquetball
- Golf meet
- Wallyball
- Floor Hockey

All students are invited to participate; ability is not important, just the desire to play. Please contact us at udintramurals@udayton.edu.
Another popular feature of the Department of Campus Recreation is the Sports Club Program. Currently, there are 36 recognized sports clubs on campus. The Sports Club Program offers students the opportunity to participate in a highly organized activity, 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 Assistant Director of Sport Clubs.

Schedules concerning open recreation hours and scheduled events may be secured from the Campus Recreation Office. For more information please visit http://campus.udayton.edu/~recsport/ or call 229-2731.

**Career Services**

The University of Dayton Career Services is a team of dedicated, caring professionals committed to providing excellent career related-resources, programs, services, and opportunities that build confidence and job search skills. We serve as a connecting point between students, faculty, alumni, and employers in an increasingly diverse and globally influenced job market. We are a leader in career planning and preparation, balancing the latest technology with personal guidance in the Marianist tradition.

Career advisors are available to discuss:

- Major selection
- Career direction
- Job search strategies
- Resume critique
- Networking
- Graduate school strategies
- Interview tips

Practice interviews with a career advisor can be digitally recorded and evaluated upon request to prepare the student for actual interviews by company representatives. All students, including first year students, are encouraged to utilize the services available. Appointments may be made by calling (937) 229-2045.

The Hire a Flyer Network is available from the Career Services web site for students to access job listings, post resumes, and register for events such as workshops, career fairs, and on-campus interviews with employers. Students may also access the Alumni Career Network through Hire a Flyer.

Career Fairs are scheduled Fall and Spring semesters for all majors. These events provide an opportunity for employers, students, and alumni to meet and discuss job opportunities. Approximately 150 companies attend looking for internship, co-op, and full-time employees.

The on-campus recruiting program is open to all students and alumni. On-campus recruiting is held October-April each year.

In addition, Career Services offers other venues for students to interact with employers as well as mini-courses, workshops, and presentations on a wide variety of job search and career related topics.

Additional information is available online at http://careers.udayton.edu.

**Center for International Programs**

The Center for International Programs provides leadership, coordination, strategic planning, and administrative support for the internationalization of campus. In cooperation with other University departments and Dayton area organizations, the CIP operates programs and provides services which enhance intercultural education at the University of Dayton. The CIP is part of Academic Affairs and Learning Initiatives, under the Office of the Provost. Our areas include:

**Education Abroad**

University study abroad programs including the CIP’s Summer Study Abroad Programs are managed through the Office of Education Abroad. Additional resources are available through partner institutions and affiliate programs for semester and year-long study. The CIP works closely with other areas on campus, such as the Center for Social Concern and academic departments, to assist all students going abroad. Faculty and staff may also find support in developing and promoting educational trips abroad.

**Exchanges and Partnerships**

The University’s international exchanges and partnerships are managed through the CIP. UD’s partnerships with international universities and institutions benefit our students, faculty and staff through education abroad programs, semester and year-long exchange programs, research collaborations, and more.

**International Student and Scholar Services**

International Student and Scholar Services provides students and exchange visitors with immigration advising, workshops, orientation, academic and non-academic advising, as well as social and extracurricular activities. Services include support of international faculty and research scholars and their dependents. The ISSS staff works collaboratively with other departments and organizations to advance the University’s commitment to building a global community.

**Intensive English Program**

The University’s English as a Second Language program develops students’ English skills in preparation for an undergraduate or graduate program or the work place. Course offerings include grammar, reading and writing, listening and speaking, TOEFL preparation, and pronunciation.

**International Learning and Living Community (ILLC)**

Upperclass undergraduate American and international students may select to live in an upperclass international community, located in an on-campus apartment building. Residents of the ILLC live together in four-person apartments and participate in activities that encourage intercultural dialogue and relationship building between students from a variety of cultural backgrounds.

**World Exchange**

The World Exchange (WEx) is a lounge and conference/work area located in Alumni Hall which fosters international interaction and partnership between internationally oriented student clubs, faculty, and staff. All members of the campus community are encouraged to utilize this space for meetings and other international exchanges.

Additionally, the Center for International Programs communicates with students, faculty, staff, and the surrounding community to promote international activities on campus and in the area.

**Counseling Center**

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 students, Law School students, and Graduate Assistants covers the cost of services by the Counseling Center while they are enrolled at the University. Non-Graduate Assistants, graduate students, and nonmatriculated undergraduate students pay charges on a fee-for-service basis. The International Association of Counseling Services, Inc, accredits the Center.

**Dining Services**

The University of Dayton Dining Services operates two full-service a la carte student dining facilities located in Kennedy Union, and Marycrest Complex, and two restaurants. Passports and The Grainary, located in the V.W. Kettering Residence Hall. The Emporium, a mini grocery store with a full service deli, is located in the Marianist Residence Hall, and Stuart’s Landing, a convenience store, is located in Stuart Hall Complex. Dining Services also operates The Galley, a pretzel/ice cream/gourmet coffee shop located in Kennedy Union, and The Chill, a juice bar with healthy snack options, located in The RecPlex. All students living in Marycrest, Stuart, Founders, Marianist, and Virginia Kettering Halls are required to purchase a meal plan. Meal plan options are as follows:

- **Limited 15 and Limited 21 Plans**: These structured meal plans have spending allowance associated with them during specific meal periods. If you don’t spend the entire allowance for that meal, you lost it. These plans start with lunch the day before the first day of classes.

Note: Only one block of funds may be used during each meal period. For example, two blocks may not be used during the lunch meal period on the same day.

- **The Silver, Gold and Platinum Plans**: These are debit style meal plans and provide complete flexibility, with no specific meal periods and now spending allowances.

Note: There are no refunds on debit plan balances, however, 50% of balances remaining at the end of each semester (after any bonus dollars are deducted) will roll over to the next semester up to a maximum of $300.

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

- **Limited 15 Plan (15 blocks per week)** $2,035.00
- **Limited 21 Plan (3 blocks per day, 7 days)** $2,180.00
- **The Silver Plan (debit account)** $1,950.00
- **The Gold Plan (debit account)** $2,210.00
- **The Platinum Plan (debit account)** $2,360.00

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

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

For more information on meal plans, please visit [http://dining.udayton.edu](http://dining.udayton.edu).

**FlyerCard**

The FlyerCard is the official photo identification card at the University of Dayton. Your FlyerCard must be presented for purchases using your FlyerCard account(s), admission to the RecPlex, library services, and building access.

Your FlyerCard can be used as a form of payment for food, textbooks, supplies, laundry, printing, and other essential services. It is safe, fast, and convenient to use. You can view your transactions and the balance of your accounts by choosing the “My Account” link at [https://flyerexpress.udayton.edu/](https://flyerexpress.udayton.edu/).

To get your FlyerCard, stop by the Campus Card Services office located in room 102 of the Powerhouse. The first FlyerCard received is issued at no charge. All students must be registered for classes before receiving their card. Visit the FlyerCard website [http://FlyerCard.udayton.edu/](http://FlyerCard.udayton.edu/) for a detailed view of the FlyerCard program.

**Flyer Express**

Flyer Express is a declining-balance prepaid account accessed with your FlyerCard. It is the convenient way to pay for products and services on and off campus. Your Flyer Express account eliminates the need to carry cash and saves you the hassle of searching for correct change. Flyer Express has you covered with whatever you need, 24 hours a day, 365 days a year. It is safe, fast, and convenient to use. The money in your Flyer Express account is carried over from one semester to the next and from year to year.

The Card Services office offers you multiple options to deposit funds into your account.

- **Online at [https://flyerexpress.udayton.edu/AddFlyer.aspx](https://flyerexpress.udayton.edu/AddFlyer.aspx)**
- **Phone**: (937) 229-2456 or 1-800-259-8864 (option 4)
- **In person at the Campus Card Services office in the Powerhouse or the Bursar’s office in St. Mary’s Hall**
- **At kiosks located in all Dining Services locations and the Roesch Library.**

Flyer Express is accepted at:

- **All Dining Service locations**
- **Art Street Cafe**
- **UD Bookstore**
- **Residence Hall laundry**
- **Campus Copy Center**
• Selected vending areas
• The Hangar
• The Galley
• Stuart’s Landing
• Campus Computer Store
• Roesch Library
• Post Office
• The Chill
• KU Box Office
• The Blend
• The Blend Express
• Selected off campus businesses.

Flyer Express is used to pay for printing in the Library and many computer labs. Visit the FlyerCard website http://FlyerCard.udayton.edu/ for a current listing of off campus vendors that accept Flyer Express.

Health Center

Medical care is available at the Health Center to all full-time and part-time undergraduate, graduate, and law students. During the academic year, the Health Center is open from 8:30 a.m. to 5:30 p.m. on weekdays, except University holidays. A physician is available for consultation every weekday morning and afternoon throughout the year, except University holidays. Summer hours are 8:30 a.m. to 4:30 p.m. with limited physician hours. Students should call the Health Center to schedule an appointment at 93131 or (937) 229-3131. In case of emergency, call Public Safety, (937) 229-2121.

Pre-admission physical examinations are not required, but students with chronic health problems are advised to have their physicians send records or recommendations to the medical director. Every student born after 1955 is required to show evidence of immunity to measles, mumps, and rubella. All students are required to fill out a tuberculosis screening. Students living in on-campus housing also have specific requirements for meningitis and hepatitis B vaccines, specified by Ohio law. A link to the Health Requirements form is located on the Health Center website at http://www.udayton.edu/student/healthcenter/index.php#5.

Undergraduate and law students pay a Basic University Fee, which covers the cost of services at the Health Center. Graduate and IEP students, who do not pay this fee, are charged for services received at the Health Center. The charge for a physician visit ranges from $45 to $75, depending on the length of the visit and the type of services provided. Charges are made for all students for medicines dispensed, allergy injections, laboratory tests, and x-ray examinations.

All charges incurred at the Student Health Center are reported to the Bursar to be entered on the student’s account with the University. Inquiries regarding bills or University-sponsored insurance should be made at the Health Center between 9:00 a.m. and 3:00 p.m. weekdays. Itemized statements can be provided upon patient request. These are not automatic and the Health Center does not bill outside insurance companies directly, however students should bring a copy of their health insurance/pharmacy cards to each visit.

Full-time graduate and law students (6 hours or more) and undergraduates students are eligible for University-sponsored health and accident insurance. For information about this program, visit the Health Center, or call (937) 229-3131.

International Student and Scholar Services Office

The International Student and Scholar Services Office provides students and exchange visitors with immigration advising, workshops, orientation, academic and non-academic advising, as well as social and extracurricular activities. ISSS extends its services and support to international faculty and research scholars and their dependents. The ISSS works collaboratively with other departments and organizations to advance the University’s commitment to building a global community.

ISSS also presents Bridges, the international student orientation, every August, January, and May. All international students new to the University of Dayton must attend. During Bridges, ISSS assigns immigration check-in times to students. Completing immigration check-in is vital to maintaining F-1/J-1 status. All new undergraduate international students are also required to attend the University’s New Student Orientation, for all new undergraduate students.

Privacy Rights of Parents and Students

In compliance with Section 438 of the General Education Provisions Act, the University of Dayton has published regulations designed to protect the privacy of parents and students as to the access and to the release of records maintained by the institution (see University of Dayton Student Handbook).

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 to the U.D. campus community. The Student Cadet program is also operated by Public Safety. Public Safety offices are located on the ground floor of College Park Center at 1529 Brown St.

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. (Non UD Network Phones will call the City of Dayton Police & Fire Departments when dialing 911.)

Parking Services

Parking Services is responsible for management of the University’s more than 5,500 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, except during open parking hours.
- 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 disabilities, internships, co-op, or senior education majors.
- 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.
- Evening students are sold N (night) permits, which are valid in Lot B at 4:15 p.m., Lots A, C, P, and S1 at 4:00 p.m. and anytime during weekends in any campus parking lot except those marked with a double letter. N (night) permits will be honored in Lot S1 anytime during the summer sessions.
- Students may contact Parking Services at (937) 229-2128, M-F 8:00 a.m.-4:30 p.m. or at parking@notes.udayton.edu.

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. The Student Volunteer Rescue Squad is comprised of full-time undergraduate students who receive their training and equipment from the Department of Public Safety. All UD Student Rescue Squad members are nationally registered EMT-Bs and volunteer their time to serve the community.

Student Cadet Program
The Student Cadet Program consists of part-time student employees who operate the Student Escort Service through the Department of Public Safety. The Student Escort Service is a program that provides free transportation for students within the campus community with a focus on crime prevention.

Residence Life Residence Coordinator
The Department of Residence Life seeks to intentionally engage students in the integration of a strong liberal arts education with their development as citizens and lifelong learners. The department offers graduate assistantships, as residence coordinators, in a variety of residential areas to help accomplish this effort.

A student must be accepted into a graduate program to be eligible for a residence coordinator position. For more information, please call 937-229-3321. Remuneration includes stipend, room, board, tuition remission, and a health insurance option. Submit applications and resumes to:

Department of Residence Life
206 Gosiger Hall
Dayton, Ohio 45469-0965

Residential Living
The University of Dayton maintains a limited number of diverse housing units for graduate students. There are approximately 64 spaces for first-year law students in University housing. Housing needs of upper-class law and graduate students also may be accommodated on a space-available basis. Graduate and law students interested in University housing should contact Residence Life at 937-229-3317 upon their acceptance.

Students are advised to coordinate their housing arrangements as early as possible. If University housing is not available, information can be provided regarding private housing in the Dayton area.

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

All Student Handbook information provided on the website may be printed from personal computers and printers.

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

Changes in disciplinary policies and procedures made during an academic year will be announced to the student population via campus e-mail. Informing students of policy and procedure changes via campus e-mail is considered official notification. The website version of the Student Handbook will be updated upon implementation of said change.

Student Life and Kennedy Union
A variety of cultural, educational, social, and recreational activities are presented in the Union regularly to enrich and enhance academic life and foster a spirit of community. In addition, this office provides support, direction, and programming opportunities for students and officially recognized student organizations. Activities in the union include game shows, trivia contests, movie nights, concerts, theatrical productions, lectures, dance ensembles, and recitals by students and faculty members. Meeting rooms, a ballroom, Boll Theatre, and University vans are available for use and can be reserved by calling 229-3333 (Kennedy Union Room 241). Information about student organizations can also be found at go.udayton.edu/siku or by calling 937-229-3333 (Kennedy Union Room 241).

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 space for discussion, studying, and socializing. The Hangar games room on the ground-floor includes 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 the Campus Activities Board, Christmas on Campus, Daytonian Yearbook, Flyer News, Flyer TV, Orpheus literary magazine, Student Government Association, and a lounge for commuter students. Also in the union are the Information Center, Box Office, KU Dining Services, Catering Services, and the travel agency.

Student Life and Kennedy Union is responsible for registering all student organization-sponsored events, granting recognition to all student organizations, providing assistance for organization advisers, publicity approval, programming the Flyer TV information channel, and coordinating campus-wide events. The office works directly with commuter students, Student Government Association, IFC, NPC, NPHC, Flyer News, Flyer Radio, Daytonian Yearbook, Orpheus, Campus Activities Board, the Charity Concert Committee, Christmas on Campus, and all recognized student organizations.

Women's Center

The Women’s Center at the University of Dayton (937-229-5390) is an educational space which serves to enhance the climate for women and men on campus. Located on the second floor of Alumni Hall, the Center, which includes a Resource Center, gallery space, and several reservable rooms, 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.

Admission

Choosing which college to attend is a huge endeavor, and it all begins with the application process.

Learn all about ours so your next big decision can be an informed one.

Admission-Undergraduate

We might not be able to make it easier for you to make your college decision, but at least we’ll make it easier for you to apply. All it takes to apply is a simple click.

Applications for admission to the University of Dayton are reviewed for specific academic majors or, when applicable, for undeclared status in an academic division. The admission committee reviews grade record and pattern throughout high school, selection of courses in preparation for college, class standing or ranking (if provided by the high school), and ACT or SAT scores. The admission committee also considers the recommendation of a high school guidance counselor, along with other factors. The University of Dayton strives to admits students who possess the intellectual ability, the commitment to community, and the motivation to thrive at the University of Dayton.

Financial Information

The University of Dayton is one of the most affordable private, Catholic schools in the country and, among comparable universities, it is an excellent value. Our graduates possess the independence, skill sets, knowledge and values preparing them for success in an ever-changing world.

Financial Information-Undergraduate

A University of Dayton education is a lifetime investment, appreciating over the course of time. It’s also an excellent value, and more than 90 percent of undergraduates receive financial assistance. Find out how more than 7,300 undergrads are making their UD dream a reality.

General Policy

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.

Tuition, fees, room and board may be paid in full before the term begins or, in accordance with payment terms for the fall and spring semesters. Late registration fees are assessed when scheduling and registration are completed after the start of the term.

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.

Expenses

Tuition and fees for full-time students during the 2012-13 academic year (fall and spring terms) will total about $33,4000 (includes the Basic University Fee) plus fees where applicable. Room and board on campus for this period would be approximately $10,770.00, based on double room occupancy, Limited 15 Meal Plan, and a Flyer Express account for weekends. Books and supplies will cost approximately $500.00 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 meals should be considered in the budget.

Undergraduate Tuition and Fees
August 2012 through July 2013

Fees Payable One Time
Application fee (online registration required) Free
Application Fee (international students only) $50.00
Counseling Center fee, payable once, at entrance $110.00
Orientation fee, payable once, first-year resident students only $170.00
Orientation fee, payable once, first-year commuter students only $160.00
Miscellaneous deposit (refundable after graduation or dropout) $100.00

Tuition Charges in Terms I and II
Full-time undergraduate student (12-17 semester hours), per term $16,000.00
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.) $1,067.00
3/4-time undergraduate student (8-11 semester hours), per term $12,000.00
Part-time undergraduate student (1-7 semester hours), per semester hour $1,067.00
Audit course, per undergraduate semester hour $534.00

Basic University Fee, Terms I and II
Full-time and 3/4-time student (8 or more semester hours), per term $700.00
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 $325.00 per term; not applicable to engineering and engineering technology students) $65.00
Engineering surcharge fee (incorporating laboratory charges) full-time and 3/4-time engineering and engineering technology students, each term $985.00
Engineering surcharge fee (incorporating laboratory charges) part-time engineering and engineering technology students, each term per credit hour $58.00

Course Fees, Terms I and II
Fees are listed with the course names and times in each term’s course composite.

Tuition and Fees, Term III
Tuition per semester hour $1,067.00
Basic University fee $25.00
Engineering surcharge per credit hour $58.00
Laboratory and course fees: same as in Terms I and II; laboratory fees will be charged per clock hour.

Other Charges
Late registration service charge 25.00 per week to a maximum of $75.00
Credit by examination, per semester hour $35.00
CLEP per credit hour $35.00
Graduation fee, undergraduate students $35.00
Books and supplies variable
Semester of Service $65.00

Transcript of credits, first copy of order by mail or in person $2.00
Each additional copy of same order by mail or in person $1.00
Transcript of credits, by Internet - per copy (add $2.25 processing fee) $2.00
Co-op student fee, per work term $65.00

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 non-matriculated 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 is cancelled before the first day of classes, full tuition refunds will be made with the exception of the admission deposit. Housing refunds will be made in accordance with the terms of the "Student Housing Contract".

Cancellations will be allowed only after the completion of proper drop/add procedures. 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.

Detailed housing cancellation information can be found at the Residential Services website at housing.udayton.edu.

During the four-week cancellation period for the first and second terms, tuition 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.)

Lab fees, Engineering surcharge, and special course fees are 100% refundable the first week of class during the Fall and Spring terms. Thereafter, they are refundable on the same schedule as tuition.

During the two-week cancellation period for each six-week session of the split third term, tuition 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.
Residence Life Policy

Each first- and second-year student (classified by a student’s high school graduation year, not by the number of credit hours) under 21 years of age, unmarried, and not living at parent’s/legal guardian’s permanent residence within 40 miles of the University of Dayton is required to live in University housing. A completed notarized statement is required from first- and second-year students requesting to commute from a parent’s/legal guardian’s permanent residence.

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 that are due to their own negligence, and will be billed for those damages at the time of discovery. Students will share responsibility with other residents of the structure for unidentified common area damages. Common area damage charges will be billed monthly when applicable. 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 recesses. All University residences are closed during Semester and Spring breaks.

Dining Services

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

- Any 15 MEAL PLAN (15 meals per week) - $1,945.00
- All 21 MEAL PLAN (3 meals per day, 7 days) - $2,085.00
- The Silver Plan (debit account) - $1,865.00
- The Gold Plan (debit account) - $2,115.00
- The Platinum Plan (debit account) - $2,260.00

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

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

For more information about meal plans, please visit http://dining.udayton.edu.

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
- UD Payment Option - The University offers an open credit arrangement with installment provisions. All students are eligible for this plan.

Room and Board, per term, Terms I and II August 2012 through May 2013

Residence Halls Single Double Quad
Marycrest Complex $4,200.00 $3,225.00 $3,225.00
Stuart Complex NA $3,225.00 $3,225.00
Founders Hall $3,710.00 $2,770.00 $1,720.00
Marianist Hall NA $4,200.00 $3,680.00
Marycrest Complex also offers:
Double with Bath $3,660.00

Apartments, Suites, Undergrad Houses
Campus South Apartments $3,380.00 per occupant

Garden Apartments
(4 or 6 students per apartment) $3,380.00 per occupant

Lawnview Apartments $3,790.00 per occupant

Virginia W. Kettering Suites $3,340.00 per occupant

Irving Commons Townhouse Apartments
(4 students per apartment) $3,260.00 per occupant

Single Apartment $5,100.00 per occupant

Single Bedroom House $4,180.00 per occupant

House $3,380.00 per occupant

New House $3,900.00 per occupant

Renovated House $3,640.00 per occupant

Special Sorority $4,020.00 per occupant

Caldwell Apartments
(2 students per apartment) $5,600.00 per occupant
(4 students per apartment) $3,900.00 per occupant

ArtStreet
Loft Apartment (4 students) $3,810.00 per occupant

Townhouse Apartment (6 students) $3,970.00 per occupant

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, lab fees, Engineering surcharge, and special course fees are 100% refundable through the first three days of the term. Thereafter, they are refundable on the same schedule as tuition.

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.

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
- UD Payment Option - The University offers an open credit arrangement with installment provisions. All students are eligible for this plan.

UD Payment Option - 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:

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

Sallie Mae Payment Plan - The University of Dayton understands that sometimes you need some help managing your tuition bill. That’s why we offer a tuition payment plan administered by Sallie Mae. The plan is a convenient, manageable payment solution that gives you the option to pay tuition in interest-free monthly installments, rather than one lump sum. The Sallie Mae tuition payment plan offers:

- More time to pay. Spread your tuition payments over a period of several months
- Interest savings. Use the plan to make monthly payments, interest free
- Convenience. You can enroll in the plan, manage your account and make payments online 24 hours a day

The tuition payment plan administered by Sallie Mae offers you the opportunity to pay your tuition, interest free, in 10 payments beginning June 1.

Go to tuitionpay.salliemae.com (catalog.udayton.edu/generalinformation/financialinformation/undergraduate/paymentoptions/http://tuitionpay.salliemae.com) to enroll. If you have any questions about the plan, call Sallie Mae at 1-800-635-0120 and a specialist will be happy to assist you.

Financial Aid Policy

The University of Dayton realizes that many students need assistance financing their college education. Financial aid is available in the form of nonrepayable grants, scholarships, student loans, and part-time employment. Parent loans and monthly payment plans are also available. Priority is given to our full-time, degree-seeking students.

Students seeking financial assistance must complete the Free Application for Federal Student Aid (FAFSA) annually. Developed by the U.S. Department of Education, the FAFSA is used to determine the family’s financial need after careful review of income, assets, and other household 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 available resources - as determined by the FAFSA.

The FAFSA should be submitted electronically each year (www.fafsa.gov) by March 1 to ensure that the University of Dayton receives the results by the priority deadline date of May 1. UD’s federal code is 003127.

In order to submit the FAFSA electronically, the applicant (student) and at least one parent (if deemed dependent a dependent student by FAFSA definition) must possess a federal student aid PIN number. To apply for an FSA PIN, the appropriate parties should visit www.pin.ed.gov. Students are encouraged to call the Flyers First Office or Financial Aid or meet with a Flyers First Counselor if they have questions regarding financial aid.

Academic Scholarships for First-Year Students

Merit based scholarships have been established to recognize academic achievement for our incoming first-year students. Applicants receive consideration for these scholarships based on the following:

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

Awards begin at $1,000, and each scholarship is renewable for eight undergraduate terms. To remain eligible for these scholarships, recipients must maintain the required minimum cumulative grade point average, be enrolled full time (minimum of 12 credit hours), participate in University-sponsored extracurricular activities, and serve as a responsible member of the university community.

Application Procedure

1. Apply for admission to the University of Dayton by December 15th 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.

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 will be considered for additional scholarships. Recipients are selected on the basis of academic accomplishments, leadership, financial need, and demonstrated service to the University. 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 $3,000.

Other Scholarship Opportunities

Athletic Scholarships

Intercollegiate athletic scholarships are awarded each year to entering students. Contact the Department of Intercollegiate Athletics at (937) 229-2100 for additional information.

Music Scholarships

Music scholarships are awarded on a competitive basis following auditions with the music faculty. Contact the Department of Music at (937) 229-3936 for additional information.

Visual Arts Scholarships

Visual Arts Scholarships are awarded on a competitive basis. Entering students must submit a portfolio for consideration. A number of four-year scholarships are awarded to students who demonstrate outstanding promise in the visual arts and who plan to pursue a degree in this field. Contact the Department of Visual Arts at (937) 229-3237 for additional information.
Additional Scholarships Administered by the University of Dayton

The University will select students as nominees for scholarships offered by certain corporations, foundations, service organizations, alumni, families, and other benefactors.

Grants

Federal Pell Grant
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.

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

Federal TEACH Grant
The Teacher Education Assistance for College and Higher Education (TEACH) Grant Program provides up to $4,000 per year in grants for graduate and undergraduate students in specified majors who intend to teach full-time in high-need subject areas for at least four years at schools classified as serving low-income students. For more information, please call or visit the Office of Financial Aid.

Loans

Federal Perkins Loans
The Federal Perkins Loan is a federally-funded student loan, but individual schools determine eligibility requirements. Priority is given to dependent undergraduate students who demonstrate high financial need (as determined by the Free Application for Federal Student Aid). Repayment begins nine (9) months after the student graduates, leaves school, or drops below half-time enrollment status. This loan carries a fixed interest rate of 5%, but interest will not accrue until the repayment cycle begins. Repayment can be spread over a ten-year period.

Federal Direct Loans
Federal Direct Loans are made available to all students who file the Free Application for Federal Student Aid (FAFSA). The maximum loan is $5,500 per year for the first year, $6,500 for the second year, and $7,500 per year for the junior and senior years. Repayment begins six (6) months after the student graduates, leaves school, or drops below half-time enrollment status. Repayment can be spread over a ten-year period. Based on the FAFSA, the student will qualify for an Unsubsidized Direct loan, Subsidized Direct loan, or a combination of both. The Subsidized Direct loan has a fixed interest rate of 3.4% and the Unsubsidized Direct loan has a fixed interest rate of 6.8% for the 2012-2013 academic year.

Federal Parent Loan for Undergraduate Students
The 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 dependent undergraduate students may borrow up to the cost of education minus financial aid per academic year for each student attending an accredited college. Standard repayment begins within sixty days after the loan is fully disbursed, however parents have the option to defer payments until their dependent student graduates. Repayment can be spread over a ten-year period. The PLUS loan has a fixed interest rate of 7.9% and an origination.

Private Alternative Educational Loans
Private Alternative Educational Loans are also available to help meet college expenses. The University of Dayton works closely with several lenders and their private loan programs, however students are able to borrow from the lender of their choice. These private loan programs offer 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 Financial Aid or visit our website at www.finaid.udayton.edu/alternative.

Employment

The Federal Work-Study Program (Federally supported) provides work opportunities for full-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 apply online at jobs.udayton.edu.

Tuition Reductions

Tuition Remission for University of Dayton Full-time employees
Full-time benefit-eligible employees, spouses, and children, when admitted in accordance with University of Dayton admission standards, are eligible for tuition remission benefits. Eligible employees receive 100% remission for both graduate and undergraduate classes for themselves. Spouses and children are eligible for undergraduate remission only based on years of benefit-eligible service. Please refer to the appropriate University of Dayton Benefit Handbook for the schedule of dependent tuition remission. Any fees associated with a specific class or degree program are the responsibility of the employee and/or dependent.

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.
For additional information, visit www.gibill.va.gov (catalog.udayton.edu/generalinformation/financialinformation/undergraduate/additionalopportunities/http://www.gibill.va.gov).

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

U.S. Army Reserve Officers Training Corps (ROTC)
Army ROTC has a number of scholarships available, affording students the opportunity to defray a majority of the costs of attending a prestigious school such as the University of Dayton. High school students compete for three- and four-year scholarships. These scholarships currently are valued at full-tuition and fees, plus University incentive grants. Two- and three-year scholarships may be available once a student is enrolled at the University. Currently, these scholarships will pay tuition and University fee expenses. In addition, students receive an allowance of $3,000 to $5,000 each school year the scholarship is in effect.

U.S. Air Force Reserve Officers Training Corps (AFROTC)
The Air Force Reserve Officers Training Corps (AFROTC) program is offered in cooperation with Wright State University by the Department of Aerospace Studies. All students who complete the General Military Course (freshman and sophomore years) may have the opportunity to enroll in the advanced Professional Military Course (junior and senior years), leading to a commission in the United States Air Force upon graduation. There are opportunities throughout the program to compete for scholarships and stipend money. Refer to the Air Force Reserve Officers Training Corps (AFROTC), Chapter X.

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 1-614-336-7032

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 the Ohio Board of Regents

Ohio War Orphans Scholarship
• Available to children of deceased/disabled Ohio war veterans
• Apply by contacting the Ohio Board of Regents
• Deadline July 1

Academic Information
In this section, you can locate specifics on various academic areas/units.

Academic Information-Undergraduate
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 100 (or ENG 100A and 100B) and ENG 200, or ENG 200H, or ASI 120 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 200H. ENG 200H is a one-semester course which satisfies the University requirement. Students who are placed in ENG 200H do not receive credit for ENG 100 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 100 unless:

- they are designated as Honors - placed in ENG 200H
- they are placed in ENG 200H (receive EM credit for ENG 100). For a score of 5 they receive EM credit for ENG 100 and ENG 200.
- they have an SAT (VB) score of 750 or above, or ACT (EN) of 35 or above - exempt from taking English composition
- they have an SAT (VB) score below 17, or ACT (EN) below 450 - placed into ENG 100A and ENG 100B
- they are in the CORE program (ASI 120 counts as ENG 200H)

**Oral Communication General Competencies**

The University’s general oral communication competency requirements are satisfied by completing CMM 110 Group Dec-Making, CMM 111 Inform Public Sp or CMM 112 Persuasive Public Sp, and CMM 113 Interviewing 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.

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. Quantitative Reasoning General Competencies

In order to graduate, students are required to satisfy the Quantitative Reasoning Competencies. There are two tracks, and students must satisfy one of these tracks. The specific track followed by the student is determined by the student’s major. Students should complete the track by the end of the sophomore year. The tracks are not described here; only how they are satisfied.

**Track 1: Analysis Track**

To satisfy Track 1, a student must complete one of the following courses with a grade of C- or better, or earn EM credit for MTH 168 Anly Geom & Calc I based on AP examinations, or earn appropriate transfer credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MTH 129</td>
<td>Calc for Business</td>
<td>3</td>
</tr>
<tr>
<td>MTH 137</td>
<td>Calc I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 138</td>
<td>Calc I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 148</td>
<td>Introductory Calc I</td>
<td>3</td>
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<table>
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<th>Course</th>
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<th>Hours</th>
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</thead>
<tbody>
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<td>MTH 149</td>
<td>Introductory Calc II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 168</td>
<td>Anly Geom &amp; Calc I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 169</td>
<td>Anly Geom &amp; Calc II</td>
<td>4</td>
</tr>
<tr>
<td>MTH 218</td>
<td>Anly Geom &amp; Calc III</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours 29

**Track 2: Descriptive Statistics**

To satisfy Track 2, a student must complete one of the following courses with a grade of C- or better, or earn EM credit for MTH 207 Intro to Statistics based on AP examinations, or earn appropriate transfer credit.

<table>
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<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tr>
<td>MTH 114</td>
<td>Contemporary Math</td>
<td>3</td>
</tr>
<tr>
<td>MTH 205</td>
<td>Math Concepts II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 207</td>
<td>Intro to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

If you have questions, please contact Dr. Joe Mashburn, Chairperson of the Department of Mathematics, at JMashburn1@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
- 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 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 at http://udayton.edu/gened/.

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 the importance 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 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:

<table>
<thead>
<tr>
<th>History</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 103</td>
</tr>
</tbody>
</table>
may be satisfied by Arts Study courses that are either included in or are required to take only certain approved courses. The University has approved some courses among a limited number of approved courses, or are required to take only some domain of knowledge requirements outside of the courses serving a thematic cluster. With their advisors' approval, students may elect to complete General Education Requirements

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 200, or ENG 200H). 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ASI 341</td>
<td>Topics Arts Study (Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.)</td>
<td>1-3</td>
</tr>
<tr>
<td>ASI 357</td>
<td>Vocation &amp; the Arts</td>
<td>3</td>
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<tr>
<td>CLA 203</td>
<td>Classical Mythology</td>
<td>3</td>
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<tr>
<td>CMM 355</td>
<td>Rhetoric-Soc Movements</td>
<td>3</td>
</tr>
<tr>
<td>ENG 151</td>
<td>Intro to Literature</td>
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<tr>
<td>ENG 203</td>
<td>Maj British Writers</td>
<td>3</td>
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<tr>
<td>ENG 204</td>
<td>Major Amer Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 205</td>
<td>Major World Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 301</td>
<td>Survey-Early Eng Lit</td>
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</tr>
<tr>
<td>ENG 302</td>
<td>Survey-Later Eng Lit</td>
<td>3</td>
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<tr>
<td>ENG 305</td>
<td>Survey-American Lit</td>
<td>3</td>
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<td>ENG 306</td>
<td>Surv-Continental Lit</td>
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<tr>
<td>ENG 320</td>
<td>Contemporary Drama</td>
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<tr>
<td>ENG 322</td>
<td>Mastrpc-World Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 323</td>
<td>Lit-Christ Tradtn</td>
<td>3</td>
</tr>
<tr>
<td>ENG 333</td>
<td>Images-Women in Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 334</td>
<td>Modern Men-Images</td>
<td>3</td>
</tr>
<tr>
<td>ENG 335</td>
<td>African Amer Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 336</td>
<td>Gender in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 338</td>
<td>Images of Business</td>
<td>3</td>
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<tr>
<td>ENG 339</td>
<td>American Indian Lit</td>
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<tr>
<td>ENG 340</td>
<td>Prison in Lit</td>
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<tr>
<td>ENG 341</td>
<td>Asian-American Lit</td>
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<tr>
<td>ENG 342</td>
<td>Lit and Environment</td>
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<tr>
<td>ENG 345</td>
<td>Colonl&amp;Postcolonl Lit</td>
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<tr>
<td>ENG 346</td>
<td>Lit &amp; Human Rights</td>
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<td>ENG 348</td>
<td>Modern Irish Lit</td>
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<td>ENG 350</td>
<td>Eurpn Lit-Antiquity</td>
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<tr>
<td>ENG 353</td>
<td>Lit-Renaissance</td>
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<td>ENG 354</td>
<td>Lit-Enlightenment</td>
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<td>ENG 355</td>
<td>Lit-Romantic Age</td>
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<td>ENG 356</td>
<td>Eurpn Lit-19th Cent</td>
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<tr>
<td>ENG 357</td>
<td>Eurpn Lit-Early 20th</td>
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<tr>
<td>ENG 358</td>
<td>Contemp Lit-Europe</td>
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<tr>
<td>ENG 360</td>
<td>Latina/Latino Lit</td>
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</tr>
<tr>
<td>ENG 362</td>
<td>Shakespeare</td>
<td>3</td>
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<tr>
<td>ENG 363</td>
<td>Shakespeare’s Worlds</td>
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<td>ENG 382</td>
<td>Mozart’s Operas</td>
<td>3</td>
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<tr>
<td>ENG 383</td>
<td>Tragic Dilemma (Restrictions: for Core only)</td>
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</tr>
<tr>
<td>ENG 384</td>
<td>Chrstrly&amp;Mod Poetry</td>
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<tr>
<td>FRN 352</td>
<td>Old World&amp;New (ENG)</td>
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<td>FRN 452</td>
<td>Old Wld Meets New</td>
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<tr>
<td>GER 351</td>
<td>German Film</td>
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<tr>
<td>GER 361</td>
<td>Survey of Ger Lit I</td>
<td>3</td>
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<tr>
<td>GER 362</td>
<td>Survey of Ger Lit II</td>
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<td>HMS 360</td>
<td>Latin Amer Tru Lit</td>
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<tr>
<td>MUS 201</td>
<td>Music in Concert</td>
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<tr>
<td>MUS 203</td>
<td>Sights &amp; Sounds-Music</td>
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</tr>
</tbody>
</table>

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://udayton.edu/gened/.

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 http://www.udayton.edu/gened/.

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.

Courses Approved for General Education

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 200, or ENG 200H). This requirement may be satisfied by Arts Study courses that are either included in or

University of Dayton
All students must complete two Historical Study courses to satisfy General Education Requirements. The first Historical Study course, (HST 103 or ASI 110), 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:

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>ASI 320</td>
<td>Cities and Energy</td>
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</tr>
<tr>
<td>ASI 342</td>
<td>Topics Hist Study (Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.)</td>
<td>1-3</td>
</tr>
<tr>
<td>CMM 350</td>
<td>Propaganda Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CMM 416</td>
<td>Devpmnt-Mass Media (Restrictions: for CMM only)</td>
<td>3</td>
</tr>
<tr>
<td>GER 341</td>
<td>Ger Culture&amp;Civilzn</td>
<td>3</td>
</tr>
<tr>
<td>HSS 275</td>
<td>Hist-PE &amp; Sport (Restrictions: for HSS only)</td>
<td>3</td>
</tr>
<tr>
<td>HST 103</td>
<td>West and World</td>
<td>3</td>
</tr>
<tr>
<td>HST 198</td>
<td>HST Scholars Sem</td>
<td>3</td>
</tr>
<tr>
<td>HST 251</td>
<td>Amer Hst to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HST 252</td>
<td>Amer Hst Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HST 302</td>
<td>Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>HST 303</td>
<td>Hist Roman Rep&amp;Emp</td>
<td>3</td>
</tr>
<tr>
<td>HST 304</td>
<td>Ancnt Hist&amp;Mod Idgy</td>
<td>3</td>
</tr>
<tr>
<td>HST 305</td>
<td>Medieval Europe</td>
<td>3</td>
</tr>
</tbody>
</table>

### Historical Study

HST 307  | Renaissance&Reformtn                      | 3       |
HST 313  | Europe 1815-1914                           | 3       |
HST 314  | Europe 1890-1945                           | 3       |
HST 315  | Europe 1945-Present                        | 3       |
HST 322  | History of England                         | 3       |
HST 324  | Comp Nationalism                           | 3       |
HST 326  | Hist-Sov Un 1860-Pr                        | 3       |
HST 327  | Natnl Cult-Sov Union                       | 3       |
HST 330  | Hist E Asia to 1800                        | 3       |
HST 333  | Hist of Mode Mdle East                     | 3       |
HST 334  | Hist Pal-Isrl Cftct                        | 3       |
HST 336  | Hist-Africa 19th Cn                        | 3       |
HST 337  | Hist Afr-19th Cn-Pr                        | 3       |
HST 340  | History of Science                         | 3       |
HST 341  | Hstcrl Pers-Sci,Tech                       | 3       |
HST 342  | Environ Hist Americas                      | 3       |
HST 343  | Hist-Civil Engr                            | 3       |
HST 344  | Hist-Sci,Tch&Mod Crp                       | 3       |
HST 346  | Hist of Aviation                           | 3       |
HST 347  | Sex,Race & Sicence                         | 3       |
HST 349  | Tech&Culture-War                           | 3       |
HST 350  | Gay Lesbian US HST                          | 3       |
HST 351  | Women Gender Am                            | 3       |
HST 352  | Hist of Amer Family                        | 3       |
HST 353  | Hist-Wom in Eurp Soc                       | 3       |
HST 354  | Hist-Women Mid East                        | 3       |
HST 355  | American Urban Hist                        | 3       |
HST 356  | Women in Third World                       | 3       |
HST 357  | Latin Amer-20th Cen                         | 3       |
HST 358  | Soc&Cult Hist-Lat Am                       | 3       |
HST 359  | HST-Amer City Plan                         | 3       |
HST 360  | US Legl/Const Hst I                        | 3       |
HST 361  | US Legl/Const Hst II                       | 3       |
HST 365  | Amer Films as Hst                          | 3       |
HST 370  | Eco & Bus Hst-US                           | 3       |
HST 372  | Hst-Rel in US                              | 3       |
HST 374  | Ireland & America                          | 3       |
HST 375  | US Foreign Relations                       | 3       |
HST 376  | Soc & Cult Hist of US                      | 3       |
HST 377  | Contemprary Amer Hst                       | 3       |
HST 378  | Hist Globl Immgnts-US                      | 3       |
HST 380  | Native Amer History                        | 3       |
HST 382  | History of Mexico                          | 3       |
HST 383  | Hist of Caribbean                          | 3       |
HST 385  | Atlantic World                             | 3       |
HST 391  | Arrm Arch Hst&Prsrvtn                      | 3       |
HST 398  | Hs Blks-US 1526-1900                       | 3       |
HST 399  | Hst Blks-US s/1900                         | 3       |
MST 310  | Read Signs Time                            | 3       |
MUS 301  | Mus Hist & Lit I (Restrictions: for MUE, MUS only) | 3       |
PSY 471  | Hist of Psychology (Restrictions: for PSY only) | 3       |
THR 415  | Hist of the Theatre I (Restrictions: for THR only) | 3       |

HST 103  | Mus, Instrumnts & Tech                     | 3       |
HST 232  | Integrating the Arts                       | 2       |
HST 302  | Mus Hist & Lit II (Restrictions: for MUE only) | 3       |
HST 303  | Intro World Music                          | 3       |
HST 304  | Hst of Amer Music                          | 3       |
HST 305  | Afric Amer Sac Mus                         | 3       |
HST 306  | History-Amer Jazz                          | 3       |
HST 307  | Dev Amer Poplr Song                        | 3       |
HST 309  | Opera Hst & Lit                            | 3       |
HST 327  | Music in Film                              | 3       |
HST 328  | Hst-Amer Musical                           | 3       |
HST 350  | Sacred Music Hst                           | 3       |
SEE 303  | Constructs of Place                        | 3       |
THR 105  | Intro to Theatre                           | 3       |
VAE 232  | Integrating the Arts                       | 2       |
VAH 101  | Intro-Visual Arts                          | 3       |
VAH 201  | Survey of Art I                           | 3       |
VAH 202  | Survey of Art II                          | 3       |
VAH 203  | Survey of Art III                          | 3       |
VAH 483  | 20th Century Art II                        | 3       |
### Philosophy

All students complete PHL 103 and REL 103 or ASI 110 and ASI 120, 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.

<table>
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<tr>
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<td>ASI 323</td>
<td>Cities and Suburbs</td>
</tr>
<tr>
<td>ASI 371</td>
<td>Prf Eth Gggl Cm-Bus (Restrictions: for Core only)</td>
</tr>
<tr>
<td>ASI 372</td>
<td>Prf Eth Gggl Cm-Edu (Restrictions: for Core only)</td>
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<td>ASI 373</td>
<td>Prf Eth Gggl Cm-Egr (Restrictions: for Core only)</td>
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<tr>
<td>ASI 374</td>
<td>Prf Eth Gggl Cm-Phl (Restrictions: for Core only)</td>
</tr>
<tr>
<td>EDT 305</td>
<td>Phil&amp;Hist of Amer Ed (Restrictions: for Education only)</td>
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<tr>
<td>MST 311</td>
<td>Read Signs Time</td>
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<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
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<tr>
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<td>Practical Logic</td>
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<td>Symbolic Logic</td>
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<td>Phi of Human Nature</td>
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<td>Philosophy and Women</td>
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<td>Metaphysics</td>
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<td>Phi of Mind</td>
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<td>Ethics&amp;Modern War</td>
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<tr>
<td>SEE 402</td>
<td>Sustnblty Resrch II</td>
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</tbody>
</table>

### Religious Studies

All students complete REL 103and PHL 103, or ASI 110 and ASI 120, 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.

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</tr>
<tr>
<td>ASI 371</td>
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</tr>
<tr>
<td>ASI 372</td>
<td>Prf Eth Gggl Cm-Edu (Restrictions: for Core only)</td>
</tr>
<tr>
<td>ASI 373</td>
<td>Prf Eth Gggl Cm-Egr (Restrictions: for Core only)</td>
</tr>
<tr>
<td>ASI 375</td>
<td>Prf Eth Gggl Cm-Rel (Restrictions: for Core only)</td>
</tr>
<tr>
<td>MST 311</td>
<td>Read Signs Time</td>
</tr>
<tr>
<td>MUS 352</td>
<td>Udstg Scrd Mus&amp;Wrshp</td>
</tr>
<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
</tr>
<tr>
<td>REL 198</td>
<td>REL Scholars Sem</td>
</tr>
<tr>
<td>REL 304</td>
<td>Hinduism</td>
</tr>
<tr>
<td>REL 305</td>
<td>Eastern Orthodoxy</td>
</tr>
<tr>
<td>REL 306</td>
<td>Buddhism</td>
</tr>
<tr>
<td>REL 307</td>
<td>Judaism</td>
</tr>
<tr>
<td>REL 308</td>
<td>Islam</td>
</tr>
<tr>
<td>REL 309</td>
<td>Afro-Latin Religions</td>
</tr>
<tr>
<td>REL 310</td>
<td>The Pentateuch</td>
</tr>
<tr>
<td>REL 311</td>
<td>The Prophets</td>
</tr>
<tr>
<td>REL 315</td>
<td>The Gospels</td>
</tr>
<tr>
<td>REL 316</td>
<td>New Testmnt Theolgs</td>
</tr>
<tr>
<td>REL 318</td>
<td>Studies in Paul</td>
</tr>
<tr>
<td>REL 319</td>
<td>Book of Revelation</td>
</tr>
</tbody>
</table>
majors.

In order to satisfy General Education Requirements, all students must complete two Physical and Life Sciences courses that are either included in or independent of a thematic cluster. Students should consult with their advisors about specific requirements or recommendations related to their majors.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 323</td>
<td>Hst-Christianity I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 324</td>
<td>Hst-Christianity II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 326</td>
<td>Protestant Christianity</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 327</td>
<td>US Religious Expr</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 328</td>
<td>US Cath Experience</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 329</td>
<td>African Amer Rel</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 344</td>
<td>Christian Marriage</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 356</td>
<td>Chr Tradition-Prayer</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 358</td>
<td>Liberation Theology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 360</td>
<td>Christian Ethics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 362</td>
<td>Chr Family Values&amp;TV</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 363</td>
<td>Faith &amp; Justice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 365</td>
<td>Chr Ethics&amp;Environ</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 366</td>
<td>The Holocaust</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 367</td>
<td>Chr Ethics&amp;Hlth Care</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 368</td>
<td>Chr Ethics&amp;Bus World</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 369</td>
<td>Chrtn Ethics &amp; Engr</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 372</td>
<td>Religion &amp; Film</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 373</td>
<td>Religion&amp;Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 374</td>
<td>Religion &amp; the Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 375</td>
<td>Religion &amp; Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 376</td>
<td>Theol&amp;Soc Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 377</td>
<td>In Jnry:Myth,Bibl&amp;Lt</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 383</td>
<td>Phil of Rel Educ</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 429</td>
<td>Modern Catholicism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 437</td>
<td>Significance-Jesus</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 440</td>
<td>The Church</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 441</td>
<td>Theology of Mary</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 443</td>
<td>The Sacraments</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 446</td>
<td>Chrtn Liturgy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 447</td>
<td>Sel Cath Doctrines</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>REL 471</td>
<td>Women and Religion</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 472</td>
<td>Ecology &amp; Religion</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 474</td>
<td>Women-Global Church</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>REL 488</td>
<td>Spirituaty&amp;Rel Educ</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 200</td>
<td>Chemistry &amp; Society</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM 234</td>
<td>Energy Resources</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM 496</td>
<td>Prof Practice Seminr (Restrictions: for CHM only)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>EGR 320</td>
<td>Sys Des Scholars Sem (Restrictions: Berry Scholars only)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 103</td>
<td>Prin of Geography (Restrictions: not for BIO, CHM, GEO, PHY, or those who have taken GEO 109 or GEO 115)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 109</td>
<td>General Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 115</td>
<td>Physical Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 116</td>
<td>Geolgcl Hst-Earth</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 204</td>
<td>Geology for Teachers (Restrictions: for ECE, EMS, EMM only)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEO 208</td>
<td>Environment! Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 218</td>
<td>Engineering Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 234</td>
<td>Energy Resources</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HSS 305</td>
<td>Human Anatomy (Restrictions: for HSS, MUT only)</td>
<td>3</td>
<td></td>
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<tr>
<td>HSS 307</td>
<td>Human Physiology (Restrictions: for HSS only)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 105</td>
<td>Phy Sci Energy &amp; Env</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 108</td>
<td>Phy Sci-Light&amp;Color</td>
<td>3</td>
<td></td>
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<tr>
<td>PHY 201</td>
<td>General Physics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 202</td>
<td>General Physics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 206</td>
<td>Gen Physics I Mech</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 207</td>
<td>Gen Phy II Ele &amp; Mag</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 208</td>
<td>Gen Phy III Mec Wavs</td>
<td>3</td>
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<tr>
<td>PHY 250</td>
<td>Descriptive Astronomy</td>
<td>3-4</td>
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<tr>
<td>SCI 190</td>
<td>The Physical Universe (Restrictions: INSS)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SCI 210</td>
<td>The Dynamic Earth (Restrictions: INSS)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SCI 220</td>
<td>World of Chemistry (Restrictions: INSS)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SCI 230</td>
<td>Org,Evol,Envrmt (Restrictions: INSS)</td>
<td>3</td>
<td></td>
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<tr>
<td>SCI 240</td>
<td>Org, Evl, Health (Restrictions: INSS)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SEE 301</td>
<td>Globl Chng&amp;Erth Sys</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### 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:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 300</td>
<td>American Cultures</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANT 150</td>
<td>Cultural Anthropolgy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANT 300</td>
<td>Evolutn-People&amp;Cultur</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANT 360</td>
<td>Cultures-South Asia</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ASI 322</td>
<td>Cities and Suburbs</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ASI 345</td>
<td>Topics Soc Sci Study (Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.)</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>ASI 358</td>
<td>Chrstny,Ctzshp&amp;Socty</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CMS 316</td>
<td>Intercultural Comm</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CMS 414</td>
<td>Global Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CMS 415</td>
<td>Women &amp; Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microcon</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECO 204</td>
<td>Prin of Macroecon</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECO 460</td>
<td>Eco Develop &amp; Growth</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
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. 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 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 the evaluation of application for transfer to some undergraduate schools, for 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, 3.6667 quality points are allowed.**
- **B+ - For each semester hour, 3.3333 quality points are allowed.**
- **B - Good, for each semester hour, 3.0 quality points are allowed.**
- **B - For each semester hour, 2.6667 quality points are allowed.**
- **C+ - For each semester hour, 2.3333 quality points are allowed.**
- **C - Fair; for each semester hour, 2.0 quality points are allowed.**
- **C - For each semester hour, 1.6667 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**

Non-Disability Related Course Waiver Policy

Students may make a request to their department or dean to waive certain required courses. In such cases, students may be required to submit proof of prior knowledge in the subject area (diplomas, certificates, portfolios, audits, transcripts, etc.). At the request of the dean’s office or department, students may be asked to complete departmental exams or to submit additional documentation and records of consultation.

Waiving a course does not confer credit. Students replace a required course (the one which has been waived) with another course that carries the same or more number of credit hours and is at an equal or higher course level. Determination of the appropriate course must take place in consultation with the department and dean’s office. This policy applies to all waived courses, including those waived by means of placement exams. In addition, this policy does not apply to students with disabilities who require a course substitution due to a disability. Students with disabilities should consult appropriate university policy for course substitution due to disability.

Any exceptions to this policy are made at the discretion of the appropriate Dean’s office.

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**ECO 461** International Econ 3
**EDT 303** Schl,Self&Society 3
**HSS 325** Women in Sport 3
**POL 101** Global Politics 3
**POL 306** Pub Policy Analysis 3
**POL 321** Russia & New States 3
**POL 331** Ntism & Ethno Poltics 3
**POL 371** Environmental Policy 3
**POL 450** Civil Liberties 3
**PSY 101** Introductory Psych 3
**PSY 334** Industrial Psychology 3
**PSY 341** Social Psychology 3
**PSY 375** Psycholg of the Arts 3
**PSY 443** Psychology of Women 3
**PSY 444** Environmtl Psychlg 3
**PSY 445** Tech,Envrmnt,Behavr 3
**SOC 204** Mod Social Problems 3
**SOC 321** Soc of Work&Occuptns 3
**SOC 322** Sex Roles & Society 3
**SOC 326** Law & Society 3
**SOC 328** Racial&Eth Minorities 3
**SOC 331** Marriage & Family 3
**SOC 332** Sociology of Women 3
**SOC 339** Social Inequality 3
**SOC 341** Self & Society 3
**SOC 343** Mass Comm-Mdrn Socy 3
**SOC 352** Community 3
**SOC 398** Soc Sci Scholrs Sem (Restrictions: Berry Scholars only) 3
**SWK 331** Death, Dying & Suicide 3
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, a W will be permitted only for special nonacademic reasons. These include, but are not limited to, financial difficulties and matters of personal or family health. Documentation may be required. 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.

- **IP**: In Progress. This symbol is used in lieu of a grade for a course posted. A grade with corresponding credit and quality points (see grading Options 1 and 2) will be assigned when the course has been completed. Replaced “P” in September 2008.

- **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 retaken 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. The transcript will reflect this event by noting the original grade with an “E” (Grade Excluded) and the term and cumulative GPA’s will be adjusted. A student may have no more than 15 semester hours of “retaken” grades. Cumulative grade point averages will reflect the changes within 30 days after the grades are posted.

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 changes 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**

Semester Grade-Point Average:

\[
\text{Grade-Point Average} = \frac{\text{Total number of quality points}}{\text{Number of semester credit hours}}
\]

Cumulative Grade-Point Average:

\[
\text{Cumulative Grade-Point Average} = \frac{\text{Total number of cumulative quality points}}{\text{Number of cumulative credit hours}}
\]

**Cumulative Academic Unit Grade-Point Average**:

\[
\text{Cumulative Academic Unit Grade-Point Average} = \frac{\text{Total number of academic units}}{\text{Number of academic units completed}}
\]

\[
\text{Includes only those courses completed at the University of Dayton and required for the specific degree obtained and/or approved for inclusion by the student’s school or college.}
\]

**Grade Appeals**

Procedures for the appeal of grades differ for the College of Arts and Sciences and the Schools of Business Administration, Education and Allied Professions, and Engineering. The student should consult the
appropriate dean’s office for the grade appeal procedure which would apply to the student’s discipline.

The Academic Honor Code

I. Introduction
As a Marianist, Catholic university committed to the education of the whole person. The University of Dayton expects all members of the academic community to strive for excellence in scholarship and in character. As stated in the University’s Student Handbook, “The University of Dayton expects its faculty and administration to be instrumental in creating an environment in which its students can develop personal integrity.”

To uphold this tradition, the University community has established an academic honor code for all of its students, except Law students who are governed by The University of Dayton School of Law Honor Code. Students are expected to be aware of and abide by the honor codes.

II. The Honor Pledge

The University of Dayton Academic Honor Code: A Commitment to Academic Integrity

I understand that as a student of the University of Dayton, I am a member of our academic and social community. I recognize the importance of my education and the value of experiencing life in such an integrated community. I believe that the value of my education and degree is critically dependent upon the academic integrity of the University community, and so

In order to maintain our academic integrity, I pledge to:

- Complete all assignments and examinations according to the guidelines provided to me by my instructors.*
- Avoid plagiarism and any other form of misrepresenting someone else’s work as my own,
- Adhere to the Standards of Conduct as outlined in the Academic Honor Code.

In doing this, I hold myself and my community to a higher standard of excellence, and set an example for my peers to follow. Instructors shall make known, within the course syllabus, the expectations for completing assignments and examinations at the beginning of each semester. Instructors shall discuss these expectations with students in a manner appropriate for each course.

* The term instructor may refer to any faculty or staff member

III. Standards of Conduct
Regardless of motive, student conduct that is academically dishonest, evidences lack of academic integrity or trustworthiness, or unfairly impinges upon the intellectual rights and privileges of others is prohibited. A non-exhaustive list of prohibited conduct includes:

A. Cheating on Exams and Other Assignments
Cheating on examinations consists of willfully copying or attempting to consult a notebook, textbook, or any other source of information not authorized by the instructor; willfully aiding, receiving aid, or attempting to aid or receive aid from another student during an examination; obtaining or attempting to obtain copies of any part of an examination (without permission of the instructor) before it is given; having another person take the exam; or any act which violates or attempts to violate the stated conditions of an examination. Cheating on an assignment consists of willfully copying or attempting to copy all or part of another student’s assignment or having someone else complete the assignment when class assignments are such that students are expected to complete the assignment on their own. It is the responsibility of the student to consult with the instructor concerning what constitutes permissible collaboration and what materials are allowed to be consulted.

B. Committing Plagiarism and Using False Citations
Plagiarism consists of quoting or copying directly from any source of material without appropriately citing the source and identifying the quoted material; knowingly citing an incorrect or fabricated source; or using ideas (i.e. material other than information that is common knowledge) from any source of material without citing the source and identifying the borrowed material. Students are responsible for educating themselves as to the proper mode of attributing credit in any course or field. Instructors may use various methods to assess the originality of students’ work, such as plagiarism detection software.

C. Submitting Work for Multiple Purposes
Students are not permitted to submit their own or other’s work (in identical or similar form) for multiple purposes without the prior and explicit approval in writing of all instructors to whom the work will be submitted. This includes work first produced in connection with classes at the University of Dayton as well as other institutions attended by the student or at places of employment.

D. Submitting False Data or Deceptive Information
The submission of false data is a form of academic fraud. False data is that which has been fabricated, altered, or contrived in such a way as to be deliberately misleading or to fit expected results. Deception is defined as any dishonest attempt to avoid taking examinations or submitting assignments at the scheduled times by means such as a forged medical certification of absence. Deception also includes falsifying class attendance records or failing to reveal that someone falsified your attendance. Extemating circumstances such as a personal illness, death in the family, etc. must be negotiated with the instructor.

E. Falsifying Academic Documentation and Grade Alteration
Any attempt to forge or alter academic documentation (including transcripts, letters of recommendation, certificates of enrollment or good standing, and registration forms) concerning oneself or others also constitutes academic fraud. Grade alteration consists of an act which dishonestly modifies a grade obtained for a class assignment, examination, or for the course itself.

F. Abuse of Library Privileges and Shared Electronic Media
All attempts to deprive others of equal access to any library materials constitute a violation of academic integrity. This includes the sequestering of library materials for the use of an individual or group; a willful or repeated failure to respond to recall notices; and the removal or attempt to remove library materials from any University library without authorization. Defacing, theft, or destruction of books, articles or any other library materials that serve to deprive others of equal access to these materials also constitute a violation of academic integrity. Malicious actions that deprive others of equal access to shared electronic media used for academic purposes constitute a violation of the Honor Code. This includes efforts that result in the damage or sabotage of campus computer systems.

G. Encouragement or Tolerance of Academic Dishonesty
The quality of campus and community life is dependent upon the commitment of each member of the University to a shared set of behavioral standards and values. Adhering to the Academic Honor Code is not limited to direct actions, but also includes any behavior that supports, encourages, or tolerates academic dishonesty.
IV. Student Status with Respect to the Academic Honor Code

A. All University of Dayton students, except for Law students who are governed by The University of Dayton School of Law Honor Code, are subject to the Standards of Conduct and procedures of the Academic Honor Code.

B. Normally, the maximum penalty for a single 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 University. These penalties may include dismissal from the major, dismissal from the school or college, removal from the University Honors Program, or dismissal from the University.

C. All honor code violations, as determined by the instructor after consultation with the student, require that the chair of the department or program director in which the incident occurred be notified of the violation by the instructor. If a student accepts the instructor’s accusation and/or penalty, the case will be considered resolved and no further action shall be required. The instructor shall send an Academic Dishonesty Incident Report form to the dean(s) of the student’s academic unit(s) – possible double major. If a student does not admit the violation or accept the proposed penalty, the student may contact the chair or program director in which the incident occurred and initiate an appeal process as outlined in Section V. If the appeal is decided in favor of the student, no report will be placed in the student’s file. If during the appeal process the student is found responsible, the report will be placed in the dean(s)’ offices of the student’s academic unit(s) – possible double major. If the student transfers between academic units, all reports will be transferred to the new dean’s office.

D. If a possible violation is reported after the grade for a course has been submitted, the case will be adjudicated only if the Office of the Provost determines that the alleged offense is of sufficient gravity to warrant consideration. Only matters that could reasonably result in sanctions reflected in a student’s permanent record will ordinarily meet the “sufficient gravity” test in this context. The Office of the Provost shall decide on the process of adjudication.

E. If a student with a possible violation withdraws, transfers, or is, for any reason, not currently enrolled at the University the University may maintain a continuing interest in, and complete the adjudication of the matter, if, in the judgment of the Office of the Provost, the matter is of sufficient gravity to warrant resolution. The Office of the Provost shall have the discretion to determine whether the adjudication will occur before or after the student’s re-enrollment, and the process of adjudication.

F. A student may not graduate with an unresolved Academic Honor Code violation which, in the judgment of the Office of the Provost, is of sufficient gravity to warrant resolution. Certification for the degree will be withheld pending a final resolution of the Academic Honor Code matter. The Office of the Provost shall decide on the process of adjudication.

G. If a violation is reported after a student has graduated, transferred, or otherwise terminated his or her enrollment at the University, the case will be adjudicated only if the Office of the Provost determines that the case is of sufficient gravity to warrant consideration. The Office of the Provost shall decide on the process of adjudication. In a case involving a student who has already received a degree, sanctions up to and including the revocation of a degree or certificate are possible. The Office of the Provost has the final authority to revise and implement any sanctions.

V. Appeal Procedure

A student who believes an accusation of academic honor code violation or penalty is not valid may appeal in the sequential manner listed below. If the student does not appeal the decision of the instructor, or accepts the accusation and penalty at any time during the appeal process, the Academic Dishonesty Incident Report form shall be sent to the student’s dean(s) by the instructor.

A. If no resolution occurs in the private conversation with the instructor, the student may appeal to the department chair or program director in which the incident occurred. The student must submit a written account, including a detailed explanation of their actions, along with any circumstances concerning the incident. This appeal must be made within ten business days after meeting with the instructor. The chair may use reasonable means, including meeting with the instructor and student, to reach a determination on the accusation and/or penalty within thirty business days.

B. If no resolution occurs with the department chair or program director, the student has ten business days to file a written appeal to a review committee formed by the department chair or program director in which the incident occurred. The review committee shall be composed of at least two tenured faculty and one student. The review committee will first select a chair, and then meet with the student and instructor involved on separate occasions and gather any additional evidence or information related to this appeal. The student has the right to see and hear the evidence, to question any witnesses against the student, and to present evidence and witnesses on the student’s behalf. Both the student and the instructor must cooperate with the review committee. The review committee shall make known its recommendations and the reasons for its recommendations in writing to the department chair or program director, the student, and the instructor within thirty business days.

C. If the student or faculty member disagrees with the review committee’s decision, either may then make an appeal to the dean of the unit in which the incident occurred. The dean must make known his or her decision, and reason(s), in writing to the student, the instructor, chair or program director, and department review committee within thirty business days.

D. A final appeal may be made to the Provost within ten business days after the dean’s decision. The Provost must make known his or her decision, and reason(s), in writing to the student, the faculty member, chair or program director, dean, and review committee within thirty business calendar days. The final authority rests with the Provost.

Academic Dishonesty Incident Report Form (catalog.udayton.edu/generalinformation/academicinformation/undergraduate/ theacademichonorcode/Academic_Dishonesty_Incident_Report.pdf)

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.

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 levels 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 yet 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.

In cases where unusual circumstances combine to cause a student to miss any class time for reasons beyond the student's control (viz., personal illness, death in the immediate family, religious holidays, University-sanctioned activity, emergency limitations on commuter travel in severe weather-related conditions), faculty members should give due diligence to reviewing the student's particular case.

Let it be noted that to insure accuracy of records, every student must be present at class during the first week of each term.

Transfer Policies

Transfer of Credit Policy

All transfer coursework completed by current UD students for UD credit must be approved in writing by the Dean's office prior to registration for the course. At a minimum, the approval process will include a review of the institution, course descriptions and course syllabus. Additionally, a vita of the professor and/or a copy of the textbook used in the course may be reviewed. Consideration for credit will only be given to transfer courses with a grade of C- or better.

Courses taken in the U.S. must be completed at a regionally accredited institution. Courses taken in a foreign country must be completed at an institution recognized by the foreign country's minister/head of education. Official transcripts must be sent directly to UD from the university and must contain an official seal of the university's office of academic affairs. Other requirements may be necessary (i.e. School of Business courses need to be taken at an AACSB accredited institution) given the specific course in question.

No credit will be granted when a student fails to receive prior written approval from the Dean's office or fails to provide official transcripts sent to UD directly from the approved university.

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
Students must first attend an initial internal transfer meeting with an Academic Advisor in the School of Business Administration. Stop in the Center for Academic Success in Miriam Hall 108 to schedule this initial SBA internal transfer meeting. Minimum Requirements: Cumulative GPA of 2.7, successful completion of an appropriate UD Math course, such as Calculus class, a C+ or higher in MTH 116 or MTH 128, or a B- or higher in MTH 207. Math courses taken at another college or university will NOT be considered.

- School of Education and Allied Professions
  Cumulative GPA of 2.5 or better, and for those seeking teacher licensure, proof must be submitted of satisfactory standardized testing scores.

- 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.

**Undergraduate Students in Graduate Courses**

An undergraduate student may register for graduate courses only under the following conditions:

1. Graduate courses to count toward the undergraduate degree:
   a. Approval must be obtained from the director of the appropriate graduate program.

2. Graduate courses to count toward the graduate degree:
   a. Approval must be obtained from the director of the appropriate graduate program.
   b. Unless the student has been accepted into a combined baccalaureate/master’s degree program, the student must be within 15 semester hours of completing the semester-hour requirements for graduation in the undergraduate program.
   c. Credit obtained for the graduate courses may not be counted toward both the bachelor’s degree and any future master’s degree unless the student has been admitted to a combined Bachelor’s + Masters program.
   d. The undergraduate student whose status is less than full-time or 3/4-time must pay the graduate tuition rates to register in graduate courses for graduate credit.

**Class Standing**

First-Year student: 0-29.9 semester hours completed  
Sophomore: 30-59.9 semester hours completed  
Junior: 60-89.9 semester hours completed  
Senior: 90 semester hours completed and over

**Dean’s List**

**Dean’s List**

At the conclusion of the Fall, Spring, 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, Spring, 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.

The Dean’s List and Dean’s Recognition List can be viewed at: [http://www.udayton.edu/flyersfirst](http://www.udayton.edu/flyersfirst).

**Honors**

The University Honors Program provides curricular offerings, programming, and benefits to undergraduates who achieve and maintain 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 upon admission to the University. Students may also enter the Honors Program after their first year with a minimum 3.5 grade-point average. All University Honors students are expected to maintain at least a 3.5 GPA.

Membership in the University Honors Program (UHP) requires continued progress towards one of the Honors Program diplomas. Honors students complete the requirements for an Honors diploma in one of two ways: by earning 15 Honors credits and completing a 6-credit Honors thesis project, or by earning 21 Honors credits without a thesis. To receive the Honors with Distinction diploma, Honors students earn 21 Honors credits and also complete the 6-credit Honors thesis project.

Students are offered a selection of Honors courses each term, including special sections of General Education courses. In most instances first-year University Honors students will be placed in the Freshman Writing Seminar for Honors Students (English 200H), a semester course that substitutes for a two-semester English requirement for non-Honors students. Incoming first-year students may also earn Honors credits through Honors-designated integrated learning living communities (ILLCs). A limited number of upper-class Honors courses are available each semester. In addition, students can receive up to nine honors credits by completing one of the following: the UHP’s Chaminade Scholars Program, the Dayton Civic Scholars Program, the River Stewards Program, or the CORE Program. Honors students must earn a grade of B or better in any Honors course for it to count towards the Honors diploma requirements. Specific ways of earning Honors credits can be found on the Honors Program website at [www.udayton.edu/honors](http://www.udayton.edu/honors). Students who meet the University Honors Program graduation requirements will earn an Honors Program diploma and key.

Numerous benefits are available to members of the University Honors Program, beginning with the special Honors orientation known as the Honors Students Welcome. The University Honors Program sponsors
speakers, cultural events, the Honors Art Exhibition and the Honors Students Symposium each year. All University Honors students are guaranteed a place in U.D. housing during their undergraduate career. Special Honors housing is available for a limited number of University Honors students through first-year integrated learning-living communities and, for upper-class students, the special interest housing process. University Honors students also benefit from early registration, graduate-level library benefits, and the use of special Honors study rooms in the library and the UHP offices. In addition, the UHP provides special advising for students interested in pursuing prestigious fellowships (e.g., Fulbright, Truman, Rhodes) or applying to graduate school.

The University Honors Program provides research funding to those students engaged in thesis projects. Outstanding projects may be eligible for funding through the Dr. Patrick F. Palermo Honors Program Founders Fund. Sophomore Honors students may be nominated by faculty to apply for the Berry Summer Thesis Institute, a fully-funded summer program designed to promote student research, leadership, and service. Students who complete the Thesis Institute are eligible to become Berry Thesis Fellows and receive additional scholarships their junior and senior years pending progress on their theses. Honors students are eligible to apply for the Chaminade Scholars Program, which awards additional scholarships to those first-year students chosen for the cohort. The Dayton Civic Scholars and River Stewards Programs also include additional upper-class scholarships. University Honors students completing at least 60 semester credit hours are eligible to apply to the Cordell W. Hull International Fellows Fund to support their international learning, leadership, and service projects. Grants may also be available for Honors students who present their academic research at professional conferences. Finally, a limited number of upper-class scholarship awards may be made to Honors students who demonstrate academic excellence and financial need.

**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** - 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** - International Learn, Lead, and Serve Award-donated in honor of Steven C. Buck, 2003.

**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 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 Science 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 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.

**Biology** - 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.

**Business Administration** - The Dick Flaute Award for Exceptional Service, Recognizing Exemplary Service by a Graduating Student in a Flyer Enterprises Activity.

**Business Administration** - The Sam Gould Award for Leadership Excellence, Recognizing Outstanding Leadership by a Graduating Senior in a Flyer Enterprises Management Position.

**Business Administration** - Outstanding Peer Advisor Award.

**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 Deserving Students or Student Groups that have most Effectively used Nonviolent Direct Action to Work for Change.

**Campus Ministry** - 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 Wottle 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 to the Outstanding Sophomore in Chemical Engineering.

Chemical and Materials Engineering - The Edmund J. Rolinski Memorial Award of Excellence to the Outstanding Senior 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 - American Chemical Society Analytical Award.

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

Chemistry - American Institute of Chemists' Award.

Chemistry - 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 Student Majoring in Chemistry.

Chemistry - The Bernard J. Katchman Memorial Scholarship/Carl I. Michaelis Scholarship Award 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 - 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, 1902, Award of Excellence to the Outstanding Senior in Civil Engineering-sponsored by the University of Dayton Alumni Association since 1962.

Communication - The Joan M. Broskey Memorial Award for Outstanding Academic and Professional Achievements in Public Relations.

Communication - 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 Bette Rogge Morse Award to the Outstanding Senior Woman in Communication.

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

Communication - 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 Debater-donated by Dr. D. G. Reilly.

Communication-Journalism - The Ritter Collett Award of Excellence to the Outstanding Senior in Journalism. 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 in Journalism-donated by a friend.

Communication-Mass Media Arts - The Si Burick Award of Excellence for Outstanding Academic and Cocurricular Achievement in Mass Media Arts-sponsored by the University of Dayton.

Communication-Public Relations - The PRSA Maureen M. Pater Award of Distinction to the Outstanding Senior in Public Relations-sponsored by the Dayton-Miami Valley Chapter of the Public Relations Society of America.

Communication-Speech Arts - The Reverend Vincent R. Vasey, 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-donated by the Addison-Wesley Publishing Company.

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

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

Computer Science - GKM Systems International Award for Innovative Programming.

Computer Science - The Lawrence A. Jehn Alumni Award for Excellence in the Senior Class.

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.

Early Childhood Education - The Kacie Hausfeld Award of Distinction to the Graduating ECE Senior Who Displays the Spirit of Kacie: A Passion
Finance - The Dr. E. B. O'Leary Award of Excellence to the Outstanding Senior Majoring in Economics.


Electrical and Computer Engineering - The Anthony Horvath, '22, and Elmer Steger, '22, Award of Excellence to the Outstanding Senior in Electrical Engineering-donated by Anthony Horvath and Elmer Steger.

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

Electrical and Computer Engineering - The Brother Louis H. Rose, S.M., '33, Award of Excellence to the Outstanding Junior in Electrical Engineering.

Electronic Engineering Technology - The Richard R. Hazen Award of Excellence for the Outstanding Graduate of the Electronic Engineering Technology Program-donated by 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 Education - The Dr. Harry E. Hand Memorial Award of Excellence-donated by the faculty of the Department of English and the Department of Teacher Education.

Entrepreneurship - Award of Excellence to the Graduating Senior Majoring in Entrepreneurship who best Embodies Outstanding Academic Achievement-sponsored by Fifth Third Bank.

Entrepreneurship - Entrepreneurial Leadership Award to the Graduating Senior Majoring in Entrepreneurship who Exhibits the Greatest Potential for Leadership as an Entrepreneur-sponsored by Robert F. Chelle, Crotty Center Founding Director.

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

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

Finance - Flyer Investment Excellence in Leadership Award to the Outstanding Student on the Flyer Investment Portfolio Management Team.

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.

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 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, S.M., Award of Excellence for Outstanding Achievement in the School of Education and Allied Professions.

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

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.

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.

Human Rights - Award of Excellence to Outstanding Senior.

Human Rights - Award of Excellence to Outstanding Junior.
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.

International Business - Award of Excellence to the Graduating Senior Majoring in International Business who has best Combined Academic Achievement with Service to the University and Community.

International Studies - The Dr. Margaret P. Karns Award for Academic Excellence and Service in Global and Local Issues.

International Studies - Outstanding Senior Award for International Studies.

International Studies - International Studies Peer Mentorship Award.

Languages - The Brother John R. Perz, S.M., Award of Excellence to the Outstanding Senior in Modern Languages-donated by the Joseph Poelking, Sr. family.

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

Languages-French - The Professor Enrique Romaguera Award of Excellence to the Outstanding Senior in Spoken French-donated in honor of his retirement in May 2005.

Languages-German - The Dr. Elke Hatch Award of Excellence to the Oustanding Senior German Major.

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


Leadership - Leadership Award of Excellence to the Graduating Senior Majoring in Leadership who best Embodies Outstanding Academic Achievement-sponsored by the Reynolds and Reynolds Company and the Standard Register Company.

Leadership - Wall Street Journal Award for General Management to the Graduating Senior in Leadership and/or Entrepreneurship considered to have the Greatest Potential for General Management Responsibilities-sponsored by Dow Jones and Company, Inc.

Library - The Brother Frank Ruhlman, S.M., Award of Excellence for Literacy Achievement.

Management and Marketing - Management/Marketing Department Award for Perseverance to the Graduating Senior Majoring in Entrepreneurship, Leadership, or Marketing who has Displayed the most Initiative and Perseverence in Pursuing an Undergraduate Education-sponsored by the faculty of the Management and Marketing Department.

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

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

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

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

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

Marketing - Marketing Award of Excellence to the Graduating Senior Majoring in Marketing who best Embodies Outstanding Academic Achievement.

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

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

Mathematics - Award of Excellence in Support of Mathematics.

Mathematics - Service Award.

Mathematics - Sophomore Award for Excellence in Mathematics.

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 - Class of 1902 Award of Excellence for Outstanding Mechanical Engineering Achievement-donated by Michael J. Gibbons, 1902, in memory of Warner H. Kiefaber, 1905.

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


Mechanical and Aerospace Engineering - The Martin C. Kuntz, 1912, 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 - 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 - Department of the Army Award. The Superior Cadet Award, provided by the Department of the Army, to the Outstanding Cadet of each academic year.

Military Science - The Brian J. Bentz Memorial Scholarship Award to the Outstanding Senior 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 of Excellence in ROTC—donated by his family and friends.

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

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

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

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

Music - The Brother Todd Ridder, S.M., Award of Excellence to the Outstanding Senior Majoring in Music.

Music - NAfME Professional Achievement Award.

Music - The Brother Joseph J. Mervar, S.M., Award of Excellence to the Outstanding Student Majoring in Music.

Music - Phi Mu Alpha College Honor Award for Musicianship, Scholarship, and General Contributions to the College Chapter.

Music - Phi Mu Alpha Professional Music Fraternity Scholastic Award to the Chapter’s Graduating Senior who has Attained the Highest Scholastic Rating.

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

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

Music - University Band Spirit Award.

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

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

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

Philosophy - The Rev. Charles Polichesk First and Second Awards of Excellence to Outstanding Seniors in Philosophy.

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 of 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 - Sigma Pi Sigma 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 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 - Miami Valley Academy of Family Physicians Award to the Graduating Senior whose Activities Exemplify the Philosophy of Family Medicine.

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

Premedicine - Montgomery County Medical Society Award to the Outstanding Senior in a 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 Charles E. Kimble Research Award to the Graduating Senior who best Demonstrated Research Excellence in Psychology.

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


Rector - The Maureen E. O’Rourke Marianist Student Award to the Graduating Senior who Exemplifies the Marianist Charism on Campus.

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 Berendt Marianist Student Award to the Outstanding Senior in Religious Studies.

Secondary Education - The Brother Louis J. Faerber, S.M., Award of Excellence to the Outstanding Student in Adolescence 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. Seibold Award of Excellence to the Outstanding Senior in Sociology.
degree will be conferred on the next conferral student's academic unit. After all degree requirements are met, the policy are the decision of the dean of the conclusion of UD's second summer session. Any exceptions to this official date for submission of grades at must provide official documentation of work completed no later than the requirements at another institution, and summer terms at UD, or have attained approval to fulfill their remaining requirements during the subsequent May graduation ceremony. However, undergraduate students who are completed all the requirements for their degree. However, undergraduate students who are short not more than seven credit hours prior to the May commencement may, with the approval of their dean, participate in the May graduation ceremony. Such students must be registered for sufficient hours to complete degree requirements during the subsequent summer terms at UD, or have attained approval to fulfill their remaining requirements at another institution, and must provide official documentation of work completed no later than the official date for submission of grades at the conclusion of UD's second summer session. Any exceptions to this policy are the decision of the dean of the student's academic unit. After all degree requirements are met, the degree will be conferred on the next conferral date as noted on the official university academic calendar. If the student is declaring candidacy for Graduation, a candidacy application must be completed either online (https://porches.udayton.edu) or via hard copy and turned into the Flyers First Office, located on the fourth floor of St. Mary's Hall. If a student is receiving two degrees, two separate candidacy applications, one for each degree, must be completed. For further information visit the Flyers First website at: http://www.udayton.edu/flyersfirst.

After the summer of 2002, students completing their degree requirements 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.

Student Records
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 provided that no outstanding financial obligation to the University exists. All transcripts so requested require payment in advance. A complimentary transcript certificate will be given to each graduate when the official diploma is issued. For more information please visit: http://www.udayton.edu/flyersfirst.

Commencement/Graduation
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. However, undergraduate students who are short not more than seven credit hours prior to the May commencement may, with the approval of their dean, participate in the May graduation ceremony. Such students must be registered for sufficient hours to complete degree requirements during the subsequent summer terms at UD, or have attained approval to fulfill their remaining requirements at another institution, and must provide official documentation of work completed no later than the official date for submission of grades at the conclusion of UD's second summer session. Any exceptions to this policy are the decision of the dean of the student's academic unit. After all degree requirements are met, the degree will be conferred on the next conferral date as noted on the official university academic calendar. If the student is declaring candidacy for Graduation, a candidacy application must be completed either online (https://porches.udayton.edu) or via hard copy and turned into the Flyers First Office, located on the fourth floor of St. Mary's Hall. If a student is receiving two degrees, two separate candidacy applications, one for each degree, must be completed. For further information visit the Flyers First website at: http://www.udayton.edu/flyersfirst.

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Libraries and Research Services

The University Libraries are comprised of Roesch Library, the Marian Library, the University Archives and Special Collections, and the International Marian Research Institute. Roesch Library houses books, journals, videos, DVDs, CDs, government documents, and microforms for both graduate and undergraduate students. Roesch Library is open 114 hours a week throughout much of the academic year and 24 hours per day during finals. Reference assistance is provided in a variety of forms including in person, email, IM, telephone, and private consultations. Roesch Library subscribes to over 280 databases on a variety of subjects and provides access to more than 69,000 journals in print and electronic formats. The Libraries also provide comfortable study areas, photocopiers, and individual and group study rooms. Roesch Library has 20 computer workstations located on the first floor and 37 computer workstations located on the second floor. All workstations provide access to the campus network, OhioLINK resources, and the Internet. These computers run Microsoft Office applications between SPSS and audio and video editing software and are available the entire time the library is open. Group Project Space, also located on the second floor, has ten workstations equipped with double monitors that allow for group collaboration. All floors have data ports and wireless network access that allow students to access campus and information networks through notebook computers. The Libraries are members of OhioLINK, a cooperative venture of university and college libraries and the Ohio Board of Regents. OhioLINK partners have created a common information network providing rapid access to and delivery of over 49 million items 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. Access to the Libraries' Web page, databases, and online catalog is available at http://www.udayton.edu/libraries/.

The Marian Library (seventh floor of the Roesch Library) is recognized as the world’s largest collection of published materials on the Virgin Mary. Its comprehensive collection embraces the works treating the Virgin Mary as found in Scripture, tradition, doctrine, history, art, popular culture, spirituality, and devotion. The multi-language collection includes over 95,000 books (6,000 printed before 1800), 200 periodicals, a clipping file of over 60,000 items, a Marian stamp collection, a Christmas creche collection, statues, medals, postcards, and works of art. Publications include Marian Studies (papers given at the annual meeting of the Mariological Society of America), Marian Library Studies (original research on Marian topics), and the twice-yearly Marian Library Newsletter. United with the Marian Library is the International Marian Research Institute (IMRI), affiliated with the Pontifical Theological Faculty Marianum in Rome. IMRI offers courses in Marian topics, and the twice-yearly Marian Library Newsletter. United with the Marian Library is the International Marian Research Institute (IMRI), affiliated with the Pontifical Theological Faculty Marianum in Rome. IMRI offers courses in Marian topics, and the twice-yearly Marian Library Newsletter.

The University of Dayton School of Law Library is located in Joseph E. Keller Hall. Its collection contains over 190,000 volumes and over 676,000 physical units of microforms. The open-stack arrangement of the Law Library permits easy access to all materials. For additional information see http://community.udayton.edu/law/library/.

The Brother Louis J. Faerber, S.M., Curriculum Materials Center (CMC) houses the SOEAP’s specialized education collections and is located in Chaminade Hall. Its collection includes professional education books and journals, children and young adult literature, elementary and secondary textbooks, standardized assessments, teaching aids (games & manipulatives), DVD’s, CD’s, videocassettes, audiocassettes, LP records, charts, material kits, and other resources. The CMC also houses research projects, theses, and dissertations completed for the SOEAP’s respective graduate programs. A copier, four networked computer workstations, the Ellison Press, Accu-Cut Machine, and an assortment of letter and shape dies are available for student use. Additional information is available at www.udayton.edu/education/cmc/index.php.

Interdisciplinary, Experimental and Special Areas

Please select a subsection using the menu to the right.

Interdisciplinary, Experimental and Special Areas-Undergraduate

Please select a subsection using the menu to the right.

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 six bachelor degree programs: Communication Management, Psychology, General Studies, Engineering Technology, ADA Didactic Program in Dietetics and Early Childhood Education. Information regarding Communication Management, Psychology, and General Studies can be obtained from Tracy Babal in the Department of Arts and Sciences, 229-2604. Information regarding the Engineering Technology program can be obtained from Scott Segalewitz in the Department of Engineering Technology, 229-4216. Information regarding the School of Education and Allied Professions programs can be obtained from Shauna Adams in the Department of Teacher Education, 229-3372, or Patricia Dolan in the Department of Health and Sport Science, 229-4203.

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 Opportunity (AA/EEO), Title VII of the Civil Rights Act of 1964, Section 503 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)

Air Force Reserve Officers Training Corps (AFROTC) is designed to create future leaders for the United States Air Force. The program is
based out of the host school at Wright State University but classes are conducted on the University of Dayton campus to alleviate any transportation concerns. A wide range of scholarships to include full tuition are available to qualified students. For more information contact the Air Force ROTC Detachment located in Millett Hall, room 118, at Wright State University or phone (937) 775-2730 or e-mail, afrotc@wright.edu (catalog.udayton.edu/generalinformation/interdisciplinary/undergraduate/airforcereserveofficertrainingcorps/afrotc@wright.edu).

Center for International Programs

The Center for International Programs provides leadership, strategic planning, coordination, and administrative support for the internationalization of campus. In cooperation with other University departments and external organizations, the CIP operates programs and provides services which enhance intercultural education at the University of Dayton and prepares our community as distinctive global citizens ready to learn, lead, and serve in the world. The CIP is part of Academic Affairs and Learning Initiatives, under the Office of the Provost. Our areas include:

Education Abroad: University study abroad programs, including the University’s Summer Study Abroad Programs, are managed through the Office of Education Abroad. Additional resources are available through partner institutions and affiliate programs for semester and year-long study. The CIP works closely with other areas on campus, such as the Center for Social Concern and academic departments, to assist all students going abroad. Faculty and staff may also find support in developing and promoting educational trips abroad.

Exchanges and Partnerships: The University’s international exchanges and partnerships are managed through the CIP. The University of Dayton’s partnerships with international universities and institutions benefit our students, faculty and staff through education abroad programs, semester and year-long exchange programs, research collaborations, and more.

International Student and Scholar Services: International Student and Scholar Services provides students and exchange visitors with immigration advising, workshops, orientation, academic and non-academic advising, as well as social and extracurricular activities. Services include support of international faculty and research scholars and their dependents. The ISSS staff works collaboratively with other departments and organizations to advance the University’s commitment to building a global community.

Intensive English Program: The University’s English as a Second Language program develops students’ English skills in preparation for an undergraduate or graduate program or the work place. Course offerings include oral communication, listening and note-taking, reading and vocabulary, writing and grammar, and special topics such as American culture, academic success, English for engineering, and English for business.

Global Learning Living Community (GLLC): Upperclass undergraduate American and international students may select to live in an upperclass international community, located in an on-campus apartment building. Residents of the GLLC live together in four-person apartments and participate in activities that encourage intercultural dialogue and relationship building between students from a variety of cultural backgrounds.

Additionally, the Center for International Programs communicates with students, faculty, staff, and the surrounding community to promote international activities on campus and in the area.

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. Placement in a job is not guaranteed since it depends on the student’s qualifications and on the availability of jobs.

College of Arts and Sciences

School of Business Administration

Cooperative Education is open to all students in the College of Arts and Sciences and the School of Business Administration. These students may start the application process by making an appointment with a career services professional. Further information on the cooperative education program for arts, science, and business students may be obtained by contacting Career Services, University of Dayton, Dayton, OH 45469-2711; phone (937) 229-2045; website http://careers.udayton.edu.

School of Engineering

Qualifications for entering and remaining in cooperative education are (1) to be admitted to the University as a full-time undergraduate student with a minimum cumulative grade point average of 2.3; (2) to have a declared major in one of the academic departments in Engineering or Engineering Technology; (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.

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 the Hire a Flyer network and having an initial interview with a member of the co-op staff. 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, must spend one full-time study term on campus after transferring before becoming eligible for the first work term.

Further information on the engineering cooperative education program may be obtained by contacting Cooperative Education, School of Engineering, University of Dayton, Dayton, OH 45469-0227; phone (937) 229-2335; website http://engineering.udayton.edu/careers/coop.asp.

Core Programs

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
Distance Learning Courses

The University of Dayton offers a select number of distance learning courses that can be taken as requirements for a major, a minor, or as electives. Unless otherwise stated, these are offered by University of Dayton academic departments that deliver undergraduate programs and are fully-accredited. The choices of distance learning courses available each semester varies, but is listed in the course composite for that semester. Selection of courses should be made by students in consultation with their academic advisor. Commonly students complete distance learning courses during the summer, to help accrue academic credit while living and working from home. Details about the courses should be sought from the academic department offering the course and the instructor of that course. In general most of these courses require Internet connectivity and utilize a number of online learning methods. Students should check what the requirements for each distance learning course are, how it relates to their major, and when and how the course begins. For additional information about UD's distance learning courses and programs, and how to be successful in the online learning environment, visit http://learn.udayton.edu.

Education Abroad

The Education Abroad office, located in the Center for International Programs, guides students pursuing an educational experience outside the United States. Whether the student wishes to attend a program through the University of Dayton or through another institution, our education abroad staff assist with the application process and prepares students through a pre-departure orientation. The education abroad staff also offer a re-entry program to students returning to the U.S.

A variety of international education programs are available through the University of Dayton, including summer, semester and full-year study abroad programs; international service opportunities and work experiences; and intercultural programming.

Summer Education Abroad - Interdisciplinary

The University Summer Study Abroad Program, offered through the Center for International Programs (CIP), is a unique study and travel experience. Students choose from eight to twelve sites during the months of May, June and July, and spend approximately three to five weeks at each program site. While abroad, students select courses from a variety of disciplines and use on-site resources to guide and enhance their learning experience. Typically, courses are taught by University of Dayton professors. By choosing to study at two sites, students can earn up to a full semester of credits. Past sites have included Athens, Dublin, Florence, London, Madrid, Paris, Rome and Shanghai.

Summer Education Abroad - Disciplinary

Summer education abroad programs which are specific to one area of study are also offered on a regular basis. Summer 2012 options included programs for business, communication, and psychology.

Language majors or minors can develop their spoken and written foreign language skills through summer language immersion programs. Students can improve their foreign language skills while integrating personal experiences and discoveries with material discussed in class lectures. University of Dayton professors design the courses to incorporate contemporary use of the language and explore the culture, government, and history of the city and nation in which they are teaching.

Semester/Academic-Year Education Abroad

The University of Dayton has developed partnerships and participates in exchange agreements with several overseas institutions. In addition to University of Dayton tuition and university fee, students are responsible for their room and board in the host country, international travel, and personal expenses. Most financial aid (including institutional scholarships and grants) applies to exchange programs. For the most current list of partners, visit www.udayton.edu/international/university_initiatives/partners.php.

Other Opportunities

University of Dayton students can study abroad in many countries through other U.S. colleges and universities, and study abroad programs are available at organizations or overseas universities. In addition to tuition, students are responsible for room and board in the host country, international travel, and personal expenses. Aid for non-University of Dayton sponsored programs is limited to federal loans and grants. Through these programs, University of Dayton students can study in Argentina, Australia, Austria, China, Costa Rica, the Czech Republic, France, Hungary, Ireland, Italy, Mexico, Poland, Russia, South Africa, Spain, the United Kingdom, and many other countries.

Service Abroad

The Center for Social Concern offers opportunities for students to combine service-learning with their education abroad experience. The International Summer Immersion programs introduce students to the country’s way of life through job placements, interaction with host families and travel through the country. Past destinations have included India, Cameroon, and Guatemala. The Center for Social Concern also coordinates week-long international service programs during the University’s winter break.

ETHOS offers various service opportunities in cities within Latin America, Africa, India, China, and Bangladesh, as well as domestic placements. Through ETHOS International Service Learning Placements, students participate in an 8- to 16-week service-learning internship. These internships involve working with NGOs or cottage industries doing engineering- and/or business-related work. The program is operated through the School of Engineering and open to both engineering and business majors. Students from other majors may participate by permission.

Release Agreement and Travel Registration

All students participating in a university-sponsored international program must complete the Release and Agreement Form which releases the University from liability for claims including, but not limited to, injury, delay, and damage while abroad. As part of this agreement, the student agrees to abide by the University’s standards of behavior while in the host country or countries. Students are also required to complete: the Health Information and Emergency Treatment Authorization Form which requests medical information; and the Behavioral Contract which outlines

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 institution’s expectations for behavior while abroad. Depending on the program, students may need to complete the Authorization Form in order to transfer academic credit earned as part of a study abroad program to the University of Dayton.

Additionally, all University of Dayton students participating in a university-sponsored international program are required to complete the online Travel Registry as part of their pre-departure requirements. The University-wide travel registry allows the University to remain in close contact with students, should they need assistance while abroad. In addition to the Travel Registry, all students participating in an individual exchange or non-University-sponsored program are required to register with the U.S. State Department.

International SOS
The University of Dayton has contracted with International SOS (SOS) to provide worldwide medical, travel, and security assistance and evacuation services for all faculty, staff and students participating in university-related international travel. Services include up-to-date reports on safety and security, health issues, medical referrals, and vaccination requirements for individual countries. SOS offers our students travel, medical, and security advice and services and protects against a variety of difficulties that could arise while abroad; however, the SOS is NOT health insurance. The University of Dayton continues to require all students studying abroad to maintain health insurance coverage and to make certain that their policies cover them while abroad.

High Risk Travel
The University will suspend all University-sponsored and organized instructional programs in countries or specific areas within countries for which the Department of State (DOS) has issued a Travel Warning or the Center for Disease Control (CDC) has issued a Travel Health Warning. If a warning is issued after the program is underway, the University’s International Response Team (IRT) will review each situation on a case-by-case basis to determine the appropriate course of action. Refunds will be evaluated on a case-by-case basis and may depend on specific service-provider refund policies.

For individual travel by students who have University funding to pursue research, study or other University-related business in countries or specific areas within countries for which the DOS has issued a Travel Warning, or the CDC has issued a Travel Health Warning, the University will not provide funding for undergraduates. Also, the University will not provide support for faculty, staff, or graduate/professional students in a country where a mandatory evacuation order has been issued. The University will review on a case-by-case basis requests for waivers (see waiver requests below).

If a warning is issued after the program is underway, the University will review each situation on a case-by-case basis to determine the appropriate course of action. In general, the University will not require the traveler to reimburse already expended funds. However, the University reserves the right to terminate remaining funding. Should a traveler have concerns and decide to return home based on lower-level travel warnings, the University will not require the traveler to reimburse expenses already incurred.

Travel Waiver Requests: Requests for a travel waiver will be considered under limited circumstances. Waiver requests should be submitted to the Center for International Programs and include a description of the learning, service, and/or research objectives of the trip; the importance of the program to the educational, research, service, or professional development of the group or individual; the political and physical conditions at the proposed site that could impact health and safety; the level of risk to the individual or group health and safety, including the traveler(s) knowledge of the area and conditions; a description of travel conditions within the country and an evacuation plan should it become necessary; and a signed High Risk Travel Waiver/Release for each traveler.

In addition to review of the warnings in question and the required waiver, the University’s CIP will seek to obtain information regarding the actions of U.S. companies and organizations in country. The CIP will also consult with relevant country experts at International SOS or other relevant organizations in country to obtain additional information and advice on the situation. IRT members will have the opportunity to review the waiver application along with the additional information collected by the CIP and provide input. An IRT waiver review subcommittee will make the final decision regarding travel waivers. There is no appeal process for waivers that are denied.

University of Dayton’s Foreign Liability Insurance - Excluded Countries
The University’s commercial insurance carrier’s foreign liability policy excludes some countries from the “coverage territory”. Check with the CIP for a complete and up-to-date list of excluded countries.

For individual travel by students who have University funding to pursue research, study or other University-related business in countries or specific areas within countries for which the DOS has issued a Travel Warning, or the CDC has issued a Travel Health Warning, the University will not provide funding for undergraduates. Also, the University will not provide support for faculty, staff, or graduate/professional students in a country where a mandatory evacuation order has been issued. The University will review on a case-by-case basis requests for waivers (see waiver requests below).

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In order for the third party insurer to consider these countries as coverage exclusion exceptions, travelers must submit to the Center for International Programs the following at least one month in advance of travel: name(s) of traveler per trip to each country; defined secured evacuation plans; preferred travel/logistical arrangements; trip purpose to travel in these countries; signed high risk travel waiver/release. The CIP will send this information to the Chair of the University of Dayton Insurance Review Committee who will seek a response from the insurance provider. The decision will be communicated to the travelers.

Fitz Center for Leadership in Community
The mission of the Fitz Center for Leadership in Community is to initiate and sustain partnerships with urban neighborhoods and larger communities for comprehensive community building and providing a context for connected learning and scholarship. The Fitz Center’s vision is for the University of Dayton 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 that builds 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. Through the Fitz Center, 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 also have afforded meaningful 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 sound approaches to addressing
societal needs. We believe we must do four things differently than they were done in the past. We emphasize:

- a different way of learning which is based in 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 using a model of comprehensive community building based on assets, not needs, and
- a different way of leading focused on 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 staff.

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

- Initiate and sustain partnerships.
- Develop communities of learning, scholarship, and practice.
- Develop curricular and co-curricular innovations around leadership in community.
- Build community capacity for constructive deliberation and change.

The Fitz Center offers the following opportunities for learning about and experiencing leadership in community:

- Ferre Professor of Social Justice
- Community-based service-learning
- Leadership in Building Communities seminar
- Semester of Service
- Rivers Institute and River Stewards
- River Leadership Curriculum
- Dayton Civic Scholars
- Annual CityLinks Conference
- Dayton’s Neighborhood School Centers
- Research and evaluation

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. The Center 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 Ferre was recognized as a key spokesperson on the Catholic theory of social justice. In his honor, the Cincinnati Province of the Society of Mary supports the Ferre Professor of Social Justice in the Fitz Center. The Ferre Professor connects Catholic social teaching to the social sciences and other disciplines 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 to the community with the Fitz Center that brokers and leads ongoing community building partnerships.

General Studies (GEN)

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 http://catalog.udayton.edu/undergraduate/collegeofartsandsciences/.

Information Technology Facilities and Services

As one of the nation’s premier institutions for technology-enhanced learning, the University of Dayton views information technology as central to both the living and learning experiences of students. UD has one of the most distinctive wired campuses in the nation: residence halls, as well as the 25 city blocks of UD owned houses comprising the Student Neighborhood, are equipped with high-speed data connections for each student. The University also supports more than 950 wireless access points to provide wireless coverage in most areas on campus, including academic buildings. In addition, students have access to an array of on-campus computer labs and computer-equipped classrooms.

To leverage this high-performance digital community, UD requires all incoming students to have a notebook computer that meets minimum hardware and software requirements set forth by each academic area. UD provides software such as Microsoft Office, SPSS, SAS, and Symantec AntiVirus to support learning, communication, and collaboration within and beyond the classroom.

The technology infrastructure at UD includes a gigabit network backbone with over 150 servers. In addition to maintaining this robust infrastructure, UD also supports learning and collaboration through such operations as the Help Desk, IT Training, and e-Learning. 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.

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

Inst for Pastoral Int-Marianist Courses

IPM 220. Fndrs/Marianist Fam. 1 Hour
MARIANIST STUDIES: FOUNDERS OF THE MARIANIST FAMILY - Historical context and life of Father William Joseph Chaminade and other Marianist founders, especially Adele de Batz de Trenquelleon and Marie Therese de Lamourous.

IPM 221. Community. 1 Hour
COMMUNITY - Exploration of the key theological principles for understanding the meaning and formation of community within the Marianist spirit.

IPM 222. Spirituality. 1 Hour
MARIANIST STUDIES: SPIRITUALITY - Examination of the cultivation of a life of prayer informed by Marianist spiritual traditions, particularly the role of Mary and the commitment to permanent Marianist mission.

IPM 223. Prayer. 1 Hour
MARIANIST STUDIES: PRAYER - An exploration of Father William Joseph Chaminade's methods and practices of prayer with insights for individual and group prayer.

IPM 224. Social Justice. 1 Hour
MARIANIST STUDIES: SOCIAL JUSTICE - An exploration for integrating the insights of Father William Joseph Chaminade with the realities of modern life in envisioning a Marianist approach to social change for the twenty-first century.

IPM 225. Leadership. 1 Hour
MARIANIST STUDIES: LEADERSHIP - Exploration of how to integrate excellent leadership skills with goals and principles of the Marianist mission. Designed for those invited to hold leadership roles in the Marianist family.

IPM 226. Charism. 1 Hour
MARIANIST STUDIES: CHARISM - Exploration of the concept of charism focusing on the Marianist charism. Emphasis on the principles and practices of Marianist spirituality, the Marianist apostolate and its importance in forming Marianist life, and the real and potential impact of the Marianist mission on the wider Church and global community.

IPM 227. Education. 1 Hour
MARIANIST STUDIES: EDUCATION - Advanced course in Marianist education based on a basic understanding of the Characteristics of Marianist Education (CMES). Emphasis on the manner in which Marianist education interweaves instruction with development of persons committed to Fr. Chaminade’s mission to educate in the faith and to multiply Christians.

IPM 228. Marianist:Mary. 1 Hour
MARIANIST STUDIES: MARY - Survey of the roles Mary has which make her a model for believers to follow: believer, prophet, God-bearer/mother, disciple, and companion. Special attention is given to the events of her life and the life of her son Jesus. Prerequisite(s): (IPM 220, IPM 221) or permission of instructor.

Inst for Pastoral Int Courses

IPI 100. Surv of Cath Doctrne. 1 Hour
SURVEY OF CATHOLIC DOCTRINE - Comprehensive survey of Catholic doctrine which systematically follows the structure of the Nicene-Constantinopolitan Creed. Prerequisite(s): Permission.

IPI 121. Conscience. 1 Hour
CONSCIENCE - The steps, stages of development, and concepts concerning moral decision making as practiced within the context of the Roman Catholic faith. Prerequisite(s): IPI 100 or permission of instructor.

IPI 130. Intro to Scripture. 1 Hour
INTRODUCTION TO SCRIPTURE - An introductory overview of Christian scripture that is foundational for Old and New Testament online courses.

IPI 131. Intr to Old Testamnt. 1 Hour
INTRODUCTION TO OLD TESTAMENT - Study of contemporary Old Testament studies to learn how to read a biblical text in terms of its literary qualities and cultural influences on interpretations. Prerequisite(s): REL 210.

IPI 132. Intr to New Testamnt. 1 Hour
INTRODUCTION TO NEW TESTAMENT - Introduction to the New Testament with a focus on the text’s cultural contexts, literary composition, theological themes, and pastoral applications. Prerequisite(s): REL 211.

IPI 180. Faith & Human Dev. 1 Hour
FAITH AND HUMAN DEVELOPMENT - Study of the development of Christian spirituality as part of human moral and psychological development. Prerequisite(s): Permission.

IPI 210. Introduction Prayer. 1 Hour
INTRODUCTION TO PRAYER - Introduction to the nature and types of prayer understood and practiced in Scripture and the theological and liturgical tradition of the Roman Catholic Church. Prerequisite(s): IPI 100 or permission of instructor.

IPI 211. Pray with Children. 1 Hour
PRAY WITH CHILDREN - Survey of how children develop spiritually and the best practices for teaching children techniques in prayer and developing their spiritual life. Prerequisite(s): IPI 100 or permission of instructor.
IPI 212. Introduction Liturgy. 1 Hour
INTRODUCTION TO LITURGY - Introduction to the public and communal worship of the Church, its purpose and features, with special attention paid to the Mass and the Liturgy of the Hours. Prerequisite(s): IPI 100 or permission of instructor.

IPI 220. Catholic Social. 1 Hour
CATHOLIC SOCIAL TEACHING - Survey of the foundations and key themes of the social teaching of the Roman Catholic Church. Prerequisite(s): IPI 100 or permission of instructor.

IPI 225. Beginnings/Church. 1 Hour
ECCELSIOLOGY: THE BEGINNINGS OF THE CHURCH - Introduction to the theological study of the Church, including basic terms and concepts essential for understanding the Church’s nature, mission, and historical evolution. Prerequisite(s): REL 212.

IPI 226. The Pilgrim Church. 1 Hour
ECCELSIOLOGY: THE PILGRIM CHURCH - Exploration of how the Church maintains its continuity with Jesus and reshapes its own self-understanding, focusing on how the Church continually reconstitutes itself through its decisions in meeting the challenges of each age. Prerequisite(s): REL 240.

IPI 227. Reframing Church. 1 Hour
ECCELSIOLOGY: REFRAMING CHURCH - Focus on the Second Vatican Council as a whole with specific consideration of the Council’s teachings regarding liturgy, Scripture, hierarchy, laity, and the Church’s relationship with the world. Prerequisite(s): REL 241.

IPI 229. Intro to Islam. 1 Hour
INTRODUCTION TO ISLAM - The origin, development and spread of Islam is surveyed, followed by the study of the basics of this religion, including major practices and beliefs, the role of the Quran, perspectives on gender roles and how Islam views people of other faiths. Consideration will also be given to factors that give rise to either fundamentalist or democratic movements in the Muslim world. Prerequisite(s): IPI 100 or permission of instructor.

IPI 250. Church History I. 1 Hour
CHURCH HISTORY I - Survey of the origin and development of the Roman Catholic Church from the apostolic era through the Protestant and Catholic Reformation, with a focus on key events and personalities. Prerequisite(s): IPI 100 or permission of instructor.

IPI 251. Church History II. 1 Hour
CHURCH HISTORY II - Survey of the origin and development of the Roman Catholic Church from the Reformation era to the post-Vatican II era with a focus on key events and personalities. Prerequisite(s): (IPI 100, 250) or permission of instructor.

IPI 253. Hst of Cath Soc Actn. 1 Hour
HISTORY OF CATHOLIC SOCIAL ACTION - An introduction to official Catholic Church documents on social teaching and how Catholic activism around the world has influenced these teachings. Prerequisite(s): REL 262.

IPI 254. US & World Poverty. 1 Hour
U.S. AND WORLD POVERTY - Analysis of conditions, causes, and trends of poverty in the U.S. and abroad and responses through the theological lens of Catholic social teaching. Prerequisite(s): REL 260B, 263.

IPI 260. Intro to Catechesis. 1 Hour
INTRODUCTION TO CATECHESIS - Exploration and analysis of the purpose, methods, goals, tasks and essential content of catechesis.

IPI 300. Christology. 1 Hour
CHRISTOLOGY - Survey of the origins and development of the foundational doctrines and theology concerning the identity, work, and mission of Jesus Christ. Prerequisite(s): IPI 100 or permission of instructor.

IPI 301. Mary. 1 Hour
MARY - Survey of the place the Virgin Mary occupies in the history of salvation and in the Church’s life. Prerequisite(s): IPI 100 or permission of instructor.

IPI 302. Sacraments. 1 Hour
SACRAMENTS - Survey of the history, theology, pastoral and liturgical practice of the sacraments of the Roman Catholic Church. Prerequisite(s): IPI 100 or permission of instructor.

IPI 400. Adv Catholic Social. 1 Hour
ADVANCED CATHOLIC SOCIAL TEACHING - Detailed discussion of the principles and recurring themes of Catholic Social Teaching according to papal social encyclicals and other documents. Prerequisite(s): (IPI 100, 220) or permission of instructor.

IPI 435. Scripture & Justice. 1 Hour

IPI 450. Vocation Ministry. 1 Hour
VOCATION MINISTRY - Basic principles of ministry in the Church are introduced, according to guidelines outlined in the United States Conference of Catholic Bishops’ National Certification Standards for Lay Ecclesial Ministers. Prerequisite(s): IPI 477 or permission of instructor.

IPI 451. Comm and Community. 1 Hour
COMMUNICATION AND COMMUNITY - Explores principles and techniques for effective communication in varied kinds of parish and diocesan ministry. Prerequisite(s): (IPI 450, 477) or permission of instructor.

IPI 452. Collaboration Comm. 1 Hour
COLLABORATION IN COMMUNITY - Study of techniques of effective collaboration with others in ministry and the identification and overcoming of obstacles to collaboration. Prerequisite(s): (IPI 450, IPI 451, IPI 477) or permission of instructor.

IPI 453. Pastoral Culture. 1 Hour
PASTORAL CULTURE - Survey of the theories and concepts related to culture, the ethnic groups that make up the Catholic Church in the United States of America, and the skills needed to begin to work effectively in a multicultural parish community or other Catholic ministry setting. Prerequisite(s): (IPI 450, IPI 451, IPI 452, IPI 477) or permission of instructor.

IPI 454. Leadership Ministry. 1 Hour
LEADERSHIP MINISTRY - Survey of the principles, strategies, and best practices of the exercise of leadership and management within the context of Church ministry. Prerequisite(s): (IPI 450, IPI 451, IPI 452, IPI 453, IPI 477) or permission of instructor.
IPI 455. Admin Ministry. 1 Hour
ADMIN MINISTRY - Survey of the essential skills of management and supervision in Church ministry, including the spiritual dimension necessary for the effective exercise of those skills. Prerequisite(s): (IPI 450, IPI 451, IPI 452, IPI 453, IPI 454, IPI 477) or permission of instructor.

IPI 456. Church Living System. 1 Hour
CHURCH LIVING SYSTEM - Integration of the principles, best practices, and skills needed for effective lay ministry leadership in the Church. Prerequisite(s): (IPI 450, IPI 451, IPI 452, IPI 453, IPI 454, IPI 455, IPI 477) or permission of instructor.

IPI 460. Fdtns&Vs Adt Lrn&Fth. 1 Hour
FOUNDATIONS AND VISION FOR ADULT LEARNING AND FAITH FORMATION - Exploration and analysis of the principles, tasks, and goals of adult faith formation within the larger context of lifelong catechesis. Prerequisite(s): IPI 477 or permission of instructor.

IPI 461. Parish as a Lrn Cmty. 1 Hour
PARISH AS A LEARNING COMMUNITY - Examination of the parish as a learning community in order to facilitate adult faith formation. Content includes the study of the dynamics and stages of community and group development, the characteristics of a learning community, and the development of strategies for the formation of the parish as a learning community. Prerequisite(s): IPI 460 or permission of instructor.

IPI 462. Many Faces/Adt Lrnrs. 1 Hour
MANY FACES OF ADULT LEARNERS - Examination of the intellectual and spiritual capacities and experiences which constitute adult learning and faith formation. Prerequisite(s): IPI 461 or permission of instructor.

IPI 463. Fac Ad Lrg&Ft Fmtn. 1 Hour
FACILITATING ADULT LEARNING AND FAITH FORMATION - Examination of the foundations, principles, and strategies for effective adult learning and facilitation of adult learning and faith formation for all stages of adulthood. Prerequisite(s): IPI 462 or permission of instructor.

IPI 464. Ld Skl Ad Lrn&Fth Fmtn. 1 Hour
LEADERSHIP ROLES AND SKILLS FOR ADULT LEARNING AND FAITH FORMATION - Study and development of leadership and team development skills for adult learning and faith formation, including skills in collaboration, forming and empowering others for roles in adult learning and faith formation, learning how to facilitate effective meetings, learning effective methods of communication in groups, dealing with conflict, and developing ways for leaders to create a balanced approach to Christian life. Prerequisite(s): IPI 463 or permission of instructor.

IPI 465. Sprt Ad Lrn&Fth Fmtn. 1 Hour
SPIRITUALITY IN ADULT LEARNING AND FAITH FORMATION - Exploration of the defining spirituality, and the principles, techniques, and goals required for an authentic spiritual life in the specific context of adult faith formation. Content also includes a survey of the different schools of spirituality within Catholic tradition. Prerequisite(s): IPI 464 or permission of instructor.

IPI 466. Ds&Imp Ad Lrn&Fth Fmtn. 1 Hour
DESIGNING AND IMPLEMENTING ADULT LEARNING AND FAITH FORMATION - Presentation and analysis of the principles, tasks, and goals of adult faith formation within the larger context of lifelong catechesis. Prerequisite(s): IPI 465 or permission of instructor.

IPI 477. Vctn,Sprt&Dis of Cat. 1 Hour
VOCATION, SPIRITUALITY, AND DISCIPLESHIP OF CATECHISTS - Exploration and analysis of the vocation, spirituality, and discipleship of catechesis. Prerequisite(s): IPI 260 or equivalent.

IPI 480. Vis for Cath Yth Min. 1 Hour
A VISION FOR CATHOLIC YOUTH MINISTRY - Introduction to the themes, principles, components, and goals to construct successful Catholic youth ministry programs according to guidelines outlined in the US Conference of Catholic Bishops pastoral plan, Renewing the Vision. Prerequisite(s): IPI 477 or permission of instructor.

IPI 481. Relational Min w/Yth. 1 Hour
RELATIONAL MINISTRY WITH YOUTH - Exploration and analysis of the relationships youth have with their parents, youth ministers, and the parish community as a whole. Prerequisite(s): IPI 480 or permission of instructor.

IPI 482. Prayr&Wrshp w/Adlnts. 1 Hour
PRAYER AND WORSHIP WITH ADOLESCENTS - Study of pedagogical practices to help young people make prayer a central and regular habit of their lives. Prerequisite(s): IPI 481 or permission of instructor.

IPI 483. Adr Dvrs Iss/Yth Min. 1 Hour
PRINCIPLES FOR ADDRESSING DIVERSITY ISSUES IN YOUTH MINISTRY - Survey of best practices for developing effective youth ministry programs for young people from plural backgrounds and environments. Prerequisite(s): IPI 482 or permission of instructor.

IPI 484. Planng Youth Ministy. 1 Hour
PLANNING YOUTH MINISTRY - Survey of the common factors and best practices that contribute to effective planning for youth ministry. Prerequisite(s): IPI 483 or permission of instructor.

IPI 496. Parish & Soc Action. 1 Hour
PARISH AND SOCIAL ACTION - Exploration of the roots of the parish’s social mission in Scripture and Catholic social teachings. Prerequisite(s): REL 280B, 283.

Interdisciplinary Studies
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.

Interdisciplinary-AS Courses
ASI 100. Acad Reading & Dialogue. 3 Hours
ACADEMIC READING AND DIALOGUE - Academic Reading and Dialogue.
ASI 110. Dev West Global Ctxt. 7 Hours
DEVELOPMENT OF WESTERN CULTURE IN A GLOBAL CONTEXT - An introductory two-course sequence integrating the study of English, history, philosophy and religious studies. The first course, ASI 110 (7 sem. hrs), offered in the fall semester, covers ancient civilizations through early modern civilization. (Completion of ASI 110 counts as completion of HST 103 and REL 103.)

ASI 120. Dev West Global Ctxt. 8 Hours
DEVELOPMENT OF WESTERN CULTURE IN A GLOBAL CONTEXT - An introductory two-course sequence integrating the study of English, history, philosophy and religious studies. The second course, ASI 120, (8 sem. hrs), offered in the spring semester, continues from the Enlightenment to the contemporary period. Restricted to first-year students in the Core Program. (Completion of ASI 120 counts as completion of second historical study course, PHL 103, and ENG 200H.) Prerequisite: ASI 110.

ASI 150. Intr to the Univ Exp. 1 Hour
INTRODUCTION TO THE UNIVERSITY EXPERIENCE - Examination of the values that inform academic progress in the College; discussion of strategies for taking full advantage of academic opportunities and integrating formal and experiential learning.

ASI 201. Personal Value Devlp. 2 Hours
PERSONAL VALUE DEVELOPMENT - Exploration of the conceptual framework of value development. Application of concepts in such personal decision making as educational and career planning, developing satisfying personal relationships, and using time productively.

ASI 203. The Dayton Community. 3 Hours
THE DAYTON COMMUNITY - An interdisciplinary social science course describing and analyzing the nature of community issues and problems of the Dayton area; various approaches to addressing local concerns including public, private and citizens initiatives are explored.

ASI 214. Drama Kinesics. 1 Hour
DRAMATIC KINESICS IN A FOREIGN LANGUAGE - Corrective work in foreign language sound and gestural patterns accomplished by enacting scenes from a play in the language. May be repeated in one language in successive stages of difficulty up to three semester hours. Registration may be retroactive. Prerequisite(s): Basic instruction in language; permission of instructor.

ASI 228. Focus on Women. 1 Hour
FOCUS ON WOMEN - Interdisciplinary seminar on the changing roles and status of women. Requirement for women's studies minors. May be repeated since topics change yearly.

ASI 305. Appalachian Studies. 3 Hours
APPALACHIAN STUDIES - Appalachian history and its influence on the present; problems of recent events; influence of local government and federal programs on the people; economic problems of underprivileged people and the future of industrial development; ecology of the region; literature, art, and music; psychology of social change and community development in the underdeveloped regions; health and mental health; problems of the Appalachian migrant.

ASI 320. Cities and Energy. 3 Hours
CITIES AND ENERGY - An interdisciplinary examination of the influence of energy on the urban environment since the Industrial Revolution, how this relationship has affected every aspect of city life from culture to infrastructure, and prospects for the future of this relationship.

ASI 322. Cities and Suburbs. 3 Hours
CITIES AND SUBURBS: THE INFLUENCE OF PLACE (SOCIAL SCIENCE) - This interdisciplinary course examines the changing social, political, economic, cultural, ethical, and religious factors that shape life in cities and suburbs. It examines the factors that influence where people choose to live and the conditions that both unite and divide people across urban/suburban regions. Particular consideration is given to issues of social injustice, privilege and oppression, and moral responsibility. The social science domain is emphasized. This course is cross-listed with ASI 323 and ASI 324. Students taking ASI 322 may not receive credit for ASI 323 or ASI 324.

ASI 323. Cities and Suburbs. 3 Hours
CITIES AND SUBURBS: THE INFLUENCE OF PLACE (PHILOSOPHY) - This interdisciplinary course examines the changing social, political, economic, cultural, ethical, and religious factors that shape life in cities and suburbs. It examines the factors that influence where people choose to live and the conditions that both unite and divide people across urban/suburban regions. Particular consideration is given to issues of social injustice, privilege and oppression, and moral responsibility. The philosophy domain is emphasized. This course is cross-listed with ASI 322 and ASI 324. Students taking ASI 323 may not receive credit for ASI 322 or ASI 324.

ASI 324. Cities and Suburbs. 3 Hours
CITIES AND SUBURBS: THE INFLUENCE OF PLACE (PERILIGIOUS STUDIES) - This interdisciplinary course examines the changing social, political, economic, cultural, ethical, and religious factors that shape life in cities and suburbs. It examines the factors that influence where people choose to live and the conditions that both unite and divide people across urban/suburban regions. Particular consideration is given to issues of social injustice, privilege and oppression, and moral responsibility. The religious studies domain is emphasized. This course is cross-listed with ASI 322 and ASI 323. Students taking ASI 324 may not receive credit for ASI 322 or ASI 323.

ASI 325. Cities & Institutions. 3 Hours
CITIES AND INSTITUTIONS - Examination of important urban institutions, including, but not limited to, city planning, economic development, public safety, and education.

ASI 341. Topics Arts Study. 1-3 Hours
SPECIAL TOPICS IN ARTS STUDY - Examination of an interdisciplinary topic in arts study. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.

ASI 342. Topics Hst Study. 1-3 Hours
SPECIAL TOPICS IN HISTORICAL STUDY - Examination of an interdisciplinary topic in historical study. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.
ASI 343. Topics Phi Study. 1-3 Hours
SPECIAL TOPICS IN PHILOSOPHY STUDY - Examination of an interdisciplinary topic in philosophy. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.

ASI 344. Topics Rel Study. 1-3 Hours
TOPICS IN RELIGIOUS STUDIES - Examination of an interdisciplinary topic in religious studies. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.

ASI 345. Topics Soc Sci Study. 1-3 Hours
SPECIAL TOPICS IN SOCIAL SCIENCE - Examination of an interdisciplinary topic in social science. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.

ASI 346. Topics-Phys&Life Sci. 1-3 Hours
SPECIAL TOPICS IN PHYSICAL AND LIFE SCIENCE - Examination of an interdisciplinary topic in physical and life sciences. Topics developed by faculty holding appointment in the Humanities Fellows Program or in an endowed chair. Specific topics may be used to meet thematic cluster general education requirements. May be repeated as topics change.

ASI 347. Physics and Lit. 3 Hours
PHYSICS AND LITERATURE - Examination of works of literature that are based on principles of physics. Basic physics experiments will be performed to reinforce theoretical principles. Prerequisite(s): ENG 102 or equivalent; SCI 190 or other PHY course.

ASI 350. Interdisp Film Study. 1 Hour
INTERDISCIPLINARY FILM STUDY A - Capstone course in the film studies minor. Interdisciplinary study of film from religious, philosophical, literary, creative, technological and institutional perspectives. Requirement for film studies minors. Prerequisite(s): Any combination of four courses (twelve semester hours): REL 372, PHL 324, ENG 331, ENG 332, CMM 345, other approved substitutes.

ASI 357. Vocation & the Arts. 3 Hours
VOCATION AND THE ARTS - Interdisciplinary arts study course that explores the impact of an artist’s sense of vocation on art; use of autobiography for self-knowledge. Open to Chaminade Scholars. Prerequisite(s): REL 356 or permission of department chairperson.

ASI 358. Chrstny,Ctzshp&Soccty. 3 Hours
CHRISTIANITY, CITIZENSHIP, AND SOCIETY - Interdisciplinary social science course, capstone for Chaminade Scholars. Presentation of historical-theological context of the church and its impact on society. Designed to help students think through their place and role in the society in which they live, work, and worship. Prerequisite(s): (ASI 357; REL 356) or permission of department chairperson.

ASI 371. Prf Eth Glgl Cm-Bus. 3 Hours
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY: BUSINESS ADMINISTRATION - Virtues and responsibilities of professionals to self, clients, community, and world. Philosophical and religious approaches to ethical theory and decision-making. In-depth study of one of the following: business ethics (371), ethics and education (372), engineering ethics (373), philosophical or religious (375) consideration of membership in a global community.

ASI 372. Prf Eth Glgl Cm-Edu. 3 Hours
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY: EDUCATION - Virtues and responsibilities of professionals to self, clients, community, and world. Philosophical and religious approaches to ethical theory and decision-making. In-depth study of one of the following: business ethics (371), ethics and education (372), engineering ethics (373), philosophical (374) or religious (375) consideration of membership in a global community.

ASI 373. Prf Eth Glgl Cm-Egr. 3 Hours
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY: ENGINEERING - Virtues and responsibilities of professionals to self, clients, community, and world. Philosophical and religious approaches to ethical theory and decision-making. In-depth study of one of the following: business ethics (371), ethics and education (372), engineering ethics (373), philosophical (374) or religious (375) consideration of membership in a global community.

ASI 374. Prf Eth Glgl Cm-Phl. 3 Hours
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY: PHILOSOPHICAL - Virtues and responsibilities of professionals to self, clients, community, and world. Philosophical and religious approaches to ethical theory and decision-making. In-depth study of one of the following: business ethics (371), ethics and education (372), engineering ethics (373), philosophical (374) or religious (375) consideration of membership in a global community.

ASI 375. Prf Eth Glgl Cm-Rel. 3 Hours
PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY: RELIGIOUS - Virtues and responsibilities of professionals to self, clients, community, and world. Philosophical and religious approaches to ethical theory and decision-making. In-depth study of one of the following: business ethics (371), ethics and education (372), engineering ethics (373), philosophical (374) or religious (375) consideration of membership in a global community.

ASI 390. Soc Justice - Lat America. 3 Hours
SOCIAL JUSTICE IN LATIN AMERICA - This course adopts an interdisciplinary, highly experiential approach to the topic of social justice in Latin America by focusing on the social, theological, and ethical dimensions of justice. Taught on-site in Latin America. Prerequisite(s): SPN 201 or equivalent or permission of instructor.

ASI 395. Science Intersh. 1-3 Hours
INTERNSHIP IN SCIENCE - Application of scientific knowledge to specific projects in an approved organization. Applied-knowledge experience open to juniors and seniors as a supplement to their science curriculum. Permission of the internship director in the student’s major department is required.
ASI 397. Hum Rights Advocacy. 3 Hours
CAPSTONE SEMINAR ON HUMAN RIGHTS ADVOCACY - This required capstone seminar enables seniors in the HRS program to 
(1) integrate their formal academic studies and internship or research 
experiences in light of the Marianist spirit of Christian Humanism that 
guides the University of Dayton, (2) discuss emerging human rights 
challenges that they are likely to confront as human rights professionals, 
and (3) consider possibilities for leadership and service in human rights 
or humanitarian assistance as a vocation. Seminar participants will 
read and discuss a set of readings concerning the moral foundations 
of the human rights idea, emerging human rights challenges, and new 
advocacy strategies. Students will write and present final papers in which 
they reflect on the study of human rights at the University of Dayton and 
their internship or research experiences, and consider the possibilities of 
pursuing human rights service as a vocation. Prerequisite(s): POL 333, 
POL 344 or permission of instructor.

ASI 398. Spe Top:Intrnl Devlp. 3 Hours
SPECIAL TOPICS IN INTERNATIONAL DEVELOPMENT - Study of 
political, philosophical, historical, and economic questions associated with 
developing countries. Topics determined by an interdisciplinary team.

ASI 399. Interdisc Topics. 3 Hours
INTERDISCIPLINARY TOPICS - Study of special topics or themes of an 
interdisciplinary nature. Specific subtitles announced in composite. May 
be repeated as topics change.

ASI 404. Study-Community Iss. 3 Hours
APPLIED STUDY IN COMMUNITY ISSUES - An advanced seminar 
that generates applied social science research related to contemporary 
social problems and public policy-making in the Dayton area. Students 
participate in research teams to assist government agencies in defining 
and analyzing critical social conditions (under supervision of faculty from 
various disciplines). Prerequisite(s): Permission of instructor.

ASI 448. Sem-Family Development. 1 Hour
SEMINAR IN FAMILY DEVELOPMENT - Interdisciplinary examination 
of issues relating to family relationships, changes in family life, and the 
context of family life. Required of family development minors. 
Prerequisite(s): Twelve semester hours completed in the minor.

Mini Courses Courses

UDI 102. Plan for Fin Success. 1 Hour
PLAN FOR FINANCIAL SUCCESS - Plan for Financial Success.

UDI 110. Max Yr Intl Ex:Intr. 1 Hour
MAXIMIZING YOUR INTERNATIONAL EXPERIENCE:EXPLORE - 
Maximizing your international experience- Explore.

UDI 145. Dev Lf Skls Std Ath. 1 Hour
LIFE SKILLS FOR FIRST-YEAR STUDENT ATHLETES - The purpose 
of this course is to introduce student athletes to various life skills needed 
to successfully manage the pressures of being a student athlete. It will 
also help them recognize the unique demands of college student-athletes 
and assist them in acquiring skills, which allow them to respond to those 
challenges.

UDI 146. Trans Coll Ath Grad. 1 Hour
TRANS COLLEGE ATHLETE GRAD - Trans College Athlete Grad.

UDI 152. Student Challenges. 0.5 Hours
STUDENT CHALLENGES - Student Challenges.

UDI 164. Faith, Vctn&Lrdshp I. 1 Hour
FAITH, VOCATION AND LEADERSHIP I - Students explore topics such 
as Christian identity, discipleship, and leadership (second semester: 
evangelization, service, and prayer) in an effort to understand Christian 
vocation and leadership.

UDI 165. Chaminade Scholars. 0.5 Hours
CHAMINADE SCHOLARS - Chaminade Scholars.

UDI 166. Choosing your Career. 1 Hour
CHOOSING YOUR CAREER - Choosing Your Career.

UDI 172. Stargazing 101. 1 Hour
STARGAZING - Stargazing.

UDI 175. Art & Science Learn. 2 Hours
THE ART AND SCIENCE OF LEARNING - Students in this course will 
explore topics related to learning and the brain as well as a wide variety 
of strategies and techniques for improving their own learning.

UDI 176. Hum Rights Wk Comm. 1 Hour
HUMAN RIGHTS WEEK COMMITTEE - Human Rights Week 
Committee.

UDI 177. Intl Mens BB Eur Tr. 1 Hour
INTL MENS BB ERU TR - Intl Mens BB Euro Tr.

UDI 185. Junior Economic Proj. 1 Hour
JUNIOR ACHIEVEMENT ECONOMIC EDUCATION PROJECT - The 
Junior Achievement Program has designed introductory economic 
education packages to elementary classrooms. This course is a unique 
opportunity to do “service-learning” in the Dayton Public Schools 
and possibly charter schools in the vicinity. To be a JA tutor, no prior 
experience in economics is necessary; any college student is qualified. 
After training, each participant will be assigned to an area teacher 
(typically at the elementary or junior level) to make arrangements to 
present the material in 5-6 two-hour increments.

UDI 188. Technology Cert (GS3). 1 Hour
TECHNOLOGY CERT (GS3) - Technology Cert (GS3).

UDI 201. UD Interdiscp Exp II. 6 Hours
UD INTERDISCP EXP II UD - Interdiscp Exp II.

UDI 202. Plan for Fin Success. 1 Hour
PLAN FOR FINANCIAL SUCCESS - Plan for Financial Success.

UDI 214. Peace Leadership. 1 Hour
PEACE LEADERSHIP - Peace Leadership.

UDI 220. Maxie: Prepare. 1 Hour
MAXIE: PREPARE - Maxie: Prepare.

UDI 233. Sophomore Yr Expr. 1 Hour
SOPHOMORE YEAR EXPERIENCE - Sophomore Year Experience.

UDI 238. Liturgical Mus Prac. 1 Hour
LITURGICAL MUS PRAC - Liturgical Mus Prac.

UDI 241. Lit Peace Prize. 1 Hour
LIT PEACE PRIZE - Lit Peace Prize.
UDI 247. Intro Chrch Musicns. 1 Hour
INTRO TO PRINCIPLES OF LITURGY FOR CHRISTIAN MUSICIANS
- This course provides the liturgical background and knowledge for the new undergraduate music ministers.

UDI 250. Explrngr Evryday Tech. 1 Hour
EXPLORING EVERDAY TECHNOLOGY - Exploring Everyday Technology.

UDI 251. U Ld-Pear Acad Ldshp. 1 Hour
U LD-PEAR ACADE LDRSHIP U LD- - Pear Acad Ldshp.

UDI 265. Christian Leader Dev. 1.5 Hour
CHRISTIAN LEADER DEV - Christian Leader Dev.

UDI 273. Intro-Urban Poverty. 3 Hours
INTRODUCTION TO URBAN POVERTY - Introduction to Urban Poverty.

UDI 278. Health Careers Sem. 1 Hour
HEALTH CAREERS SEMINAR - Health Careers Seminar.

UDI 309. Employment Readiness. 1 Hour
EMPLOYMENT READINESS - Conducting your job search can be a daunting task, but breaking it down into manageable steps will help you be successful. You will acquire professionalism with ease and become more self assured in business interactions. You will also learn how to become a highly desirable employee by understanding career leadership skills most desired by employers, such as professionalism, problem solving, respecting workplace boundaries and diversity.

UDI 315. River Steward Exp I. 1 Hour
THE RIVER STEWARD EXPERIENCE I - Classroom experience for First Year River Stewards. This course focuses on leadership development in the pursuit of education, experience and action within the community. Open to first year River Stewards only.

UDI 324. Liv SimplySustnably. 1 Hour
LIV SIMPLY SUSTNABLY - Liv Simply Sustnably.

UDI 341. Sexual Diversity. 1 Hour
SEXUAL DIVERSITY - This course explores the lives and development of lesbian, gay, and bisexual people in contemporary American society with particular attention to individual, relationship, and community issues and their intersections. Students will be encouraged to examine their fears and prejudices as a way of discovering that sexual minority individuals are both unlike and just like everyone else. In this way all students - straight or gay - can learn to be more sensitive to differences in sexuality that exist in the world around them.

UDI 350. Hst&Eval Wrld Wines. 1 Hour
WINES OF THE WORLD - This course provides a study of world wines from several perspectives (history, organoleptics, geography, and economics) to develop in the student a deeper understanding and appreciation of wine both personally and socially.

UDI 359. Employment Readiness. 1 Hour
EMPLOYMENT READINESS - Conducting your job search can be a daunting task, but breaking it down into manageable steps will help you be successful. You will acquire professionalism with ease and become more self assured in business interactions. You will also learn how to become a highly desirable employee by understanding career leadership skills most desired by employers, such as professionalism, problem solving, respecting workplace boundaries and diversity.

UDI 364. Christn Com&Vocatn I. 1.5 Hour
VOCATION AND LEADERSHIP I - Students explore topics such as community, prayer, and Christian servant-leadership in an effort to understand and engage in communal faith development and vocational discernment.

UDI 371. Art Street Experience. 1 Hour
ART STREET EXPERIENCE - Art Street Experience.

UDI 385. Intrgrp Dialogue:REL. 2 Hours
INTERGROUP DIALOGUE: RELIGION - The Intergroup Dialogues course is carefully structured to explore social group identity, conflict, community and social justice. It involves an identity group defined by race and ethnicity. Each identity group is represented in the dialogue with two facilitators - one from each represented identity group - who encourage dialogue rather than debate. Facilitators and participants explore similarities and differences among and across groups and strive toward building a multicultural and democratic community.

UDI 387. President's Diversity. 1 Hour
PRESIDENT'S DIVERSITY - President’s Diversity.

UDI 389. Ethnicity & Race. 1.5 Hour
INTERGROUP DIALOGUE: ETHNICITY - The Intergroup Dialogues course is carefully structured to explore social group identity, conflict, community and social justice. It involves an identity group defined by race and ethnicity. Each identity group is represented in the dialogue with two facilitators - one from each represented identity group - who encourage dialogue rather than debate. Facilitators and participants explore similarities and differences among and across groups and strive toward building a multicultural and democratic community.
UDI 390. Srvt Ldshp-REAL Dytn. 1 Hour
SERVANT LEADERSHIP SEMINAR FOR REAL DAYTON LEADERS
- In this service learning mini-course, (approximately 13) students are selected to be the REAL Dayton. Leaders will enhance, incorporate and reflect upon servant leadership skills to be effective leaders for this fall break program. Also during course meeting time, the leaders will work as a team to develop and plan the service projects, reflection activities and educational opportunities for the REAL Dayton program. At the end of the course leaders will reflect on the service projects completed during the REAL Dayton, the effectiveness of the program for UD students and their own experience as servant leaders.

UDI 391. Civic Scholar Exp III. 1 Hour
CIVIC SCHOLAR EXPERIENCE III - Civic Scholar Exp III.

UDI 392. Dayton Civic Scholar. 1 Hour
DAYTON CIVIC SCHOLAR - Dayton Civic Scholar.

UDI 393. Comm Serv Internship. 3 Hours
COMMUNITY SERVICE INTERNSHIP - This service-learning mini course, which is only open to students in the Semester of Service program combines community service with reflection. Requirements include 450 hours of direct community service, an observation/reflection journal, required readings, a short story written from their community service experiences and class discussions on related issues. Only open to (5) students in the Semester of Service program.

UDI 394. Civic Scholar Exp II. 1 Hour
CIVIC SCHOLAR EXPERIENCE II - This mini-course will prepare students to get the greatest possible benefit from their participation in the study abroad offering, 'Investing a Great City: Integrated London ISSAP 2006'.

UDI 395. Civic Scholar Exp IV. 1 Hour
CIVIC SCHOLAR EXPERIENCE IV - Civic Scholar Experience IV.

UDI 396. Intro-Med Termnlgy. 1 Hour
INTRODUCTION TO MEDICAL TERMINOLOGY - Introduction to Medical Terminology.

UDI 398. Civic Scholar Exp V. 1 Hour
CIVIC SCHOLAR EXPERIENCE V - Civic Scholar Experience V.

UDI 399. Civic Scholar Exp VI. 1 Hour
CIVIC SCHOLAR EXP VI - Civic Scholar Exp VI.

UDI 400. UD Interdiscp Exp II. 6 Hours
UD INTERDISCIP EXP II UD - Interdiscp Exp II.

UDI 410. Maxie:Integration. 1 Hour
MAXIE: INTEGRATION - Maxie: Integration.

UDI 415. River Steward Exp II. 1 Hour
THE RIVER STEWARD EXPERIENCE II - Classroom experience for Second Year River Stewards. This course focuses on leadership development in the pursuit of education, experience and action within the community. Open to Second Year River Stewards only.

UDI 419. Forum-Yng Catech Lrn. 1 Hour
FORUM-YNG CATECH LRN - Forum- Yng Catech Lrn.

UDI 421. Beyond UD. 1 Hour
UD POST-UNDERGRADUATE MINI COURSE - This mini-course is designed for graduating seniors who are considering participating in service after graduation. Students will explore opportunities to live out their vocation as well as come to a better understanding of spirituality, community living and discerning God's call.

UDI 499. Cont Ed. 1 Hour
CONT ED - Cont Ed.

Interdisciplinary-Bus Courses

BAI 103L. Bus Computing Lab. 1 Hour
BUSINESS COMPUTING LABORATORY - Introduction to business software skills including spreadsheets, relational databases, and integration of computer applications. Overview of UD computer ethics policies.

BAI 150. Bus Educ Planning. 1 Hour
BUSINESS EDUCATIONAL PLANNING - Introduction to the School of Business Administration, the University, and educational planning.

BAI 151. Bus Integratn Exp. 1 Hour
BUSINESS INTEGRATION EXPERIENCE - Integrated introduction to major business processes and decision making.

BAI 294. Spec Topics in SBA. 3 Hours
SPECIAL TOPICS IN SBA - Special Topics in SBA.

BAI 400. Dean’s Leadership Lab. 1 Hour
DEAN’S LEADERSHIP LABORATORY - Upper-class student participation in first-year student advising program. Prerequisite(s): Permission of dean’s office.

BAI 497. Lab Work Experience. 1-6 Hours
LABORATORY WORK EXPERIENCE - 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. Prerequisite(s): Permission of dean.

John W. Berry, Sr., Scholars Program
The Berry Scholars Program provides a three-year seminar-based curricular program for a small group of high achieving incoming Honors students. The final class of Berry Scholars was admitted in Fall, 2009 and the program ends with the graduation of the members of this class.

Marian Library/International Marian Research Institute
The Marian Library/International Marian Research Institute is recognized as the largest and most comprehensive collection of materials on the Virgin Mary and as a leading center for Marian studies. Established in 1943 by the Marianists at the University of Dayton, the Marian Library comprises over 100,000 books and pamphlets which include theological, Scriptural and ecclesial documents and commentaries, biographies of Marian devotees, sermons, and Marian art. It also has collections...
of postcards, religious images, postage stamps, medals, rosaries, Christmas créches, and recordings of Marian music.

A principal mission of the Marian Library is to promote research in Marian studies. The International Marian Research Institute was founded in 1975 (in affiliation with the Pontifical Theological Faculty Marianum in Rome) offering an academic program leading to the licentiate (S.T.L.) and the doctorate (S.T.D.) in theology; the master’s degree in religious studies with a Marian concentration (in conjunction with the Department of Religious Studies of the University of Dayton); a certificate in Marian studies; and a guided program of studies. The academic program is organized in a three-year cycle and serves a diverse, international student population: lay (men and women), priests, and religious. While most students seek the degree in theology with specialization in mariology, others simply wish to satisfy personal interests in Marian studies.

The Marian Library provides exhibits of Marian art, reference services, circulation of books and videos, conferences and workshops. Four publications originate at the Marian Library: Marian Library Studies, a scholarly journal of original research; Marian Studies, the journal of the Mariological Society of America; the Marian Library Newsletter, which covers current books and topics of interest; and Art and Spirituality, a series of monographs promoting personal meditation through religious art.

The Marian Library maintains the Mary Page http://themarypage.org with extensive resources: information on art exhibits and classes, Marian ecclesial documents, FAQs, 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 DRaisch1@udayton.edu.

Pre-Law

The Prelaw Program, designed to serve students from all areas of the University, provides undergraduates and alumni interested in law school with 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 to match 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 fourteen prelaw faculty advisors, provides students with suggestions for courses that help develop skills needed for legal education, with information about the law school admission process, with aid in taking the Law School Admission Test (LSAT) including simulated tests and prep workshops, and with help in completing law school applications. In addition, the Program supports the Political Science prelaw internship, allowing students to gain valuable experience working in an attorney’s office, sponsors both the undergraduate chapter of Phi Alpha Delta and a mock trial program in which students compete locally, regionally, and nationally, and offers 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 in Alumni Hall, Room 124; phone (937) 229-4229.

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 professional research scientists, engineers, and technicians conduct basic and applied research. These activities are externally funded and most 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 work experience and 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.

In coordination with Wright State University, the Department of Aerospace Studies offers the Air Force ROTC training program on campus and at Wright State University. Successful completion of the program provides the opportunity to become a commissioned officer in the United States Air Force. Refer to the Air Force Reserve Officers Training Corps (AFROTC), Chapter X.

University Honors Program

The University Honors Program provides curricular offerings, programming, and benefits to undergraduates who achieve and maintain 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 upon admission to the University. Students may also enter the Honors Program after their first year with a minimum 3.5 grade-point average. All University Honors students are expected to maintain at least a 3.5 GPA.

Membership in the University Honors Program requires continued progress towards one of the Honors Program-designated diplomas. Honors students complete the requirements for an Honors diploma in one of two ways: by earning 15 Honors credits and completing a six-credit Honors thesis project, or by earning 21 Honors credits without a thesis. To receive the Honors with Distinction diploma, Honors students earn 21 Honors credits and also complete the six-credit Honors thesis project.

Students are offered a selection of Honors courses each term including special sections of General Education courses. In most instances first-year University Honors students will be placed in The Freshman Writing Seminar for Honors students (ENG 114), a semester course
that substitutes for a two-semester English requirement for non-Honors students. A limited number of upper class Honors courses are also available each semester. Students may also earn Honors credits through Honors-designated learning living communities, completion of the Chaminade Scholars program, or completion of the CORE program. Honors students must earn a grade of B or better for any Honors courses to count towards the Honors diploma requirements. Specific ways of earning Honors credits can be found on the Honors Program website at honors.udayton.edu. Students who meet the University Honors Program graduation requirements will earn an Honors Program-designated diploma and key.

Numerous benefits are available to members of the University Honors Program. The University Honors Program sponsors speakers, cultural events, the Honors Art Exhibition and the Honors Students Symposium each year. All University Honors students are guaranteed a place in U.D. housing during their undergraduate career. Special Honors housing is available for a limited number of University Honors students, and upper-class University Honors students who choose to live together receive preferential treatment in the annual housing lottery. University Honors students benefit from early registration. They also receive graduate-level library benefits and enjoy the use of a special Honors study room in the library.

University Honors students undertaking Honors thesis projects may apply for thesis grants; outstanding projects may be eligible for funding through the Palermo Honors Program Founders Fund. Grants may also be available for Honors students who present their academic research at professional conferences. 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. Finally, a limited number of upper-class awards may be made to Honors students who demonstrate academic excellence and financial need.

Women's Center

The Women's Center at the University of Dayton (937-229-5390) is an educational space which serves to enhance the climate for women and men on campus. Located on the second floor of Alumni Hall, the Center, which includes a Resource Center, gallery space, and several reservable rooms, 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.

Directories

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Faculty

PAST PRESIDENT

DEANS EMERITI
Gould, Sam (1985), Management and Marketing - B.S., 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.
Biers, David W. (1976), Psychology, Associate Professor - B.A., Lafayette College, 1966; M.S., Northwestern University, 1968; Ph.D., 1970.
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.


Chiodo, Andria J. (1968), Languages, Assistant Professor - B.A., University of Oregon, 1966; M.A., 1968.

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.


Doepler, Philip E. (1984), Mechanical and Aerospace Engineering, Professor - B.M.E., University of Dayton, 1967; M.S.M.E., Ohio State University, 1968; Reg. Prof. Engr.

Drees, Doris A. (1956), Health and Sport Science - B.S., University of Dayton, 1956; M.A., 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.


Fraker, John R. (1975), Engineering Management and Systems - B.S., University of Tennessee, 1956; M.S., 1965; Ph.D., Clemson University, 1971; Reg. Prof. Engr.

Fratini, Albert V. (1967), Chemistry - B.S., University of Rhode Island, 1960; Ph.D., Yale University, 1966.

Frericks, Donald J. (1978), Educational Leadership - B.S., University of Dayton, 1956; M.A., Miami University, 1958; Ph.D., Ohio State University, 1970.


Frye, Helen B. (1967), Teacher Education - B.A., Ohio Wesleyan University, 1944; M.Ed., Wittenberg University, 1962; Ph.D., Ohio State University, 1967.

Fuchs, Gordon E. (1967), Teacher Education - B.S., School of Wisconsin, 1958; M.S., 1961; Ph.D., Ohio State University, 1974.

Gantner, Thomas E. (1966), Mathematics - B.S., University of Dayton, 1962; M.S., Purdue University, 1964; Ph.D., 1966.

Geary, K. Michael (1976), Accounting, Associate Professor - B.S., Indiana University, 1969; M.B.A., Miami University, 1974; Ph.D., University of Cincinnati, 1982; C.P.A., Illinois, 1975; Ohio, 1976.


George, Norman (1962), Law - Ohio State University, 1950; M.B.A., University of Pittsburgh, 1954; Ph.D., 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.


Hanwood, Philip J. (1966), Communication - B.S., Butler University, 1960; M.S., 1961; Ph.D., Ohio University, 1972.


Karns, Margaret (1976), Political Science - B.A., Dennison University, 1965; M.S., University of Michigan, 1966; Ph.D., 1975.


Kepes, Joseph J. (1962), Physics - B.S., Case Institute of Technology, 1953; Ph.D., University of Notre Dame, 1958.


Lain, Laurence B. (1976), Communication, Professor - B.S., Indiana State University, 1969; M.A.E., Ball State University, 1973; Ph.D., Ohio State University, 1984.


Laufersweiler, Joseph D. (1963), Biology - B.S., University of Notre Dame, 1952; M.S., Ohio State University, 1954; Ph.D., 1960.


Lestling, Joseph (1992), Mechanical and Aerospace Engineering - B.C.E., Manhattan College, 1957; M.S., Virginia Polytechnic Institute, 1959; D.Eng., Yale University, 1966.


Lu, Christopher C. (1976), Chemical and Materials Engineering - B.S., Chen-Kung University, 1960; M.S., University of Missouri, 1966; Ph.D., University of Texas, 1972.


Morlan, Don B. (1977), Communication - B.S., Indiana State University, 1962; M.S., 1965; Ph.D., Purdue University, 1969.
Mott, Robert L. (1966), Engineering Technology - B.M.E., General Motors Institute, 1963; M.S.M.E., Purdue University, 1965; Reg. Prof. Engr.
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. (1960), Mathematics - B.S., St. Louis University, 1955; M.S., Ohio State University, 1961.


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.


Schauer, John J. (1968), Mechanical and Aerospace Engineering, Professor – B.S., University of Dayton, 1958; M.S., University of Dayton, 1959; Ph.D., University of Dayton, 1964.


Sekely, William S. (1976), Management and Marketing, Associate Professor - B.S., Allegheny College, 1966; M.S., Case Western Reserve University, 1970; Ph.D., Kent State University, 1975.

Shaughnessy, Gerald J. (1967), Mathematics, Associate Professor - B.S., University of Dayton, 1963; M.S., Florida State University, 1964.


Thiele, Gary A. (1979), Electrical and Computer Engineering - B.S.E.E., Purdue University, 1977; M.S., Ohio State University, 1964; Ph.D., 1968; Reg. Prof. Engr.; Fellow IEEE, 1982.


Tsui, Susan L., (1965), Library - B.A., National Taiwan University, 1961; M.S.L.S., University of Illinois, 1954.


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., Ohio State University, 1959; Ph.D., University of Iowa, 1968.


George, Norman (1962), Law - Ohio State University, 1950; M.B.A., University of Pittsburgh, 1954; Ph.D., Ohio State University, 1962; J.D., Salmon Chase College, 1967.


Noland, George B. (1955), Biology - B.S., University of Detroit, 1950; M.S., 1952; Ph.D., Michigan State University, 1955.

O’Hare, J. Michael (1966), Physics - B.S., Loras College, 1960; M.S., Purdue University, 1962; Ph.D., State University of New York at Buffalo, 1966.


Peterson, Richard E. (1957), Mathematics - B.A., Hiram College, 1955; M.S., Purdue University, 1957.


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, Associate Professor - B.S., United Arab Emirates University, 1987; M.S., East Tennessee State University, 1995; Ph.D., Auburn University, 2000.


Adams, Shauna M. (1993), Teacher Education, Associate Professor - B.S., University of Dayton, 1979; M.S., 1986; Ed.D., University of Cincinnati, 1996.


Ahouija, Mohamed (2001), Physics, Associate Professor - B.A., Kenyon College, 1990; M.S., University of Cincinnati, 1993; Ph.D., 1996.


Altman, Aaron (2002), Mechanical and Aerospace Engineering, Associate Professor - B.S.E., Tulane University, 1990; M.S.E., University of Texas at Austin, 1994; Ph.D., Cranfield University, 2001.


Archerbeaut, Deborah (2009), Accounting, Assistant Professor - B.B.A., Siena College, 1989; M.S., University of Albany, 1994; Ph.D., University of Alabama, 2000.

Arndt, Kelly (2007), Counselor Education and Human Services, Assistant Professor - B.Ed., University of Toledo, 1987; M.Ed., Bowling Green State University, 1992; Ph.D., University of Toledo, 2006.

Arnold, Jacqualine (2012), Teacher Education, Clinical Faculty – B.S., University of Dayton, 1993; M.S., University of Dayton, 1997; Ph.D., The Ohio State University, 2006.


Balster, Eric J. (2008), Electrical and Computer Engineering, Assistant Professor - B.S., University of Dayton, 1998; M.S., 2000; Ph.D., Ohio State University, 2004.


Barnes, Michael H. (1968), Religious Studies, Professor - A.B., St. Louis University, 1961; Ph.L., 1962; Ph.D., Marquette University, 1976.

Barrios, Joaquin (2009), Health and Sport Science, Orthopedic Coordinator - B.S., Creighton University, 2000; Ph.D., Duke University, 2003; Ph.D., University of Delaware, 2008.

Becker, Paul J. (2002), Sociology, Anthropology, and Social Work, Associate Professor - B.S., Indiana State University, 1987; M.S., 1989; Ph.D., Bowling Green State University, 1996.
Benbow, Mark E. (2008), Biology, Assistant Professor - B.S., University of Dayton, 1994; Ph.D., 1999.
Benin, Vladimir A. (2001), Chemistry, Associate Professor - B.S., University of Sofia, 1990; M.S., Vanderbilt University, 1993; Ph.D., 1995.
Bigelow, Kimberly E. (2009), Mechanical and Aerospace Engineering, Assistant Professor - B.S., Michigan State University, 2003; M.S., Ohio State University, 2005; Ph.D., 2008.
Bilgin, Omer (2009), Civil Engineering, Assistant Professor - B.S., Middle East Technical University, 1991; M.S., Oklahoma State University, 1995; Ph.D., Cornell University, 1999.
Bogard, Treavor L. (2011), Teacher Education, Assistant Professor – B.S., McMurry University, 1997; M.A., University of Texas, 2005; Ph.D., University of Texas, 2010.


Bourgeois, Jason P. (2012), Marian Library, Assistant Professor – B.A., Aquinas College, 1993; M.A., Marquette University, 1995; Ph.D., Marquette University, 2001; M.S., University of Illinois-Urbana-Champaign, Anticipated May 2012.


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.

Brahler, C. Jayne (2000), Health and Sport Science, Associate Professor - B.S., Montana State University, 1980; M.S., Washington State University, 1993; Ph.D., 1998.


Brecha, Robert J. (1993), Physics, Professor - B.S., Wright State University, 1983; Ph.D., University of Texas at Austin, 1990.


Browning, Charles E. (1976), Materials Engineering, Professor - B.S., West Virginia University, 1966; M.S., Wright State University, 1970; Ph.D., University of Dayton, 1976.


Bunta, Silviu (2007), Religious Studies, Assistant Professor - B.A., University of Sibiu, 1997; M.A., University of Oradea, 1998; Ph.D., Marquette University, 2005.


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.


Carlson, Marybeth (1993), History, Associate Professor - B.A., University of Maryland, 1979; M.A., University of Wisconsin, 1986; Ph.D., 1992.
Carrillo, Albino (2003), English, Associate 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. Hoben Research Scholar in International Business - B.A., National Taiwan University, 1969; M.S., Auburn University, 1973; Ph.D., University of Georgia, 1977.


Cheung, Kwok Tung (2012), Philosophy Lecturer – B.B.A., Hong Kong University of Science and Technology, 1994; M.A., Hong Kong University of Science and Technology, 1998; Masters in Philosophy, Hong Kong Baptist University, 2001; Ph.D., Indiana University, Anticipated August 2012.

Choi, Jun-Ki (2012), Mechanical and Aerospace Engineering, Assistant Professor – B.S., Hanyang University, 1997; M.S.E., University of Michigan, 1999; Ph.D., Purdue University, 2006.

Chong, Andy C. (2011), Physics, Assistant Professor – B.S., University of Texas at Austin, 1995, 1996; M.S., Cornell University, 2007; Ph.D., Cornell University, 2008.

Chuck, Leon (1989), Mechanical and Aerospace Engineering, Assistant Professor - B.S., University of Maryland, 1978; 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.


Comfort, Don (2008), Chemical and Materials Engineering, Assistant Professor - B.S., Case Western Reserve University, 2000; M.S., North Carolina State University, 2002; Ph.D., 2006.

Comfort, Kristen K. (2012), Chemical Engineering, Assistant Professor – B.S., University of Dayton, 2002; M.S., North Carolina State University, 2006; Ph.D., North Carolina State University, 2007.

Cook, Rebecca Ann (2002), Counseling Center, Administrative - B.S., Purdue University, 1976; M.S., Indiana University, 1990; Ph.D., University of Memphis, 2002.

Coovert, Kerry (2008), Teacher Education, Assistant Professor - B.S., University of Dayton, 1997; M.S., Marygrove College, 2002; Ph.D., University of Cincinnati, 2007.


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.

Crosson, Garry (2007), Chemistry, Assistant Professor - B.A., Morgan State University, 1998; Ph.D., Pennsylvania State University, 2005.


Cusella, Louis P. (1985), Communication, Professor - B.A., Kent State University, 1971; M.A., Ohio State University, 1974; Ph.D., Purdue University, 1978.


Damasco, Ione (2006), Library, Associate Professor - B.A., Ohio State University, 1997; M.L.I.S., Kent State University, 2005.


Darrow, David (1996), History, Associate Professor - B.A., University of Northern Iowa, 1986; M.A., University of Iowa, 1988; Ph.D., 1996.

Dasgupta, Simanti (2009), Sociology, Anthropology, and Social Work, Assistant Professor - B.A., University of Calcutta, 1993; M.A., Delhi School of Economics, 1995; M.Phil., Delhi School of Economics, 1997; (cand.) Ph.D., New School for Social Research.

Davidson, Edith F. (2010), Management and Marketing, Assistant Professor - B.B.A., Jackson State University, 1999; M.B.A., University of Mississippi, 2001; Ph.D., University of Tennessee, 2007.

Davies, Susan (2006), Counselor Education and Human Services, Assistant Professor - B.A., University of North Carolina at Chapel Hill, 1995; M.S., Miami University, 1997; Sp.E., 1999.


Davis-Berman, Jennifer L. (1986), Sociology, Anthropology, and Social Work, Professor - B.S., Denison University, 1979; M.S.W., Ohio State University, 1982; Ph.D., 1985.


Deep, Ronald (1989), Engineering Management and Systems, Associate Professor - B.S., U.S. Air Force Academy, 1960; M.S.E., Purdue University, 1970; Ph.D., Florida State University, 1976; Reg. Prof. Engr.


Doench, Meredith (2010), English, Lecturer - B.S., Ball State University, 1998; M.A., University of Dayton, 2003; Ph.D., Texas Tech University, 2007.

Dolph, David (2005), Educational Leadership, Clinical Faculty - B.S., University of Dayton, 1970; M.S., Xavier University, 1973; Ph.D., University of Dayton, 1994.

Donahoe-Fillmore, Betsy K. (2006), Health and Sport Science, Associate Professor - B.S., Ohio State University, 1988; M.S., University of Indianapolis, 1992; Ph.D., Union Institute and University, 2002.

Donaldson, Steven L. (2006), Civil and Environmental Engineering and Engineering Mechanics, Assistant Professor - B.S., Purdue University, 1981; M.S., University of Dayton, 1987; Ph.D., Stanford University, 1993.


Dorf, Samuel N. (2010), Music, Assistant Professor - B.A., Boston University, 2002; B.M., 2002; M.A., Tufts University, 2004; Ph.D., Northwestern University, 2009.

Doty, John H. (2008), Engineering Management and Systems, Associate Professor - B.S., Clarkson University, 1980; B.S., Air Force Institute of Technology, 1984; M.S., 1995; Ph.D., Purdue University, 1999.


Doyle, George R., Jr. (1982), Mechanical and Aerospace Engineering, Professor - B.S.A.E., Purdue University, 1965; M.S.A.E., 1967; Ph.D., University of Akron, 1973; Reg. Prof. Engr.

Driskell, Shannon, O.S. (2003), Mathematics, Associate Professor - B.S., Edinboro University, 1992; M.A., East Carolina University, 1997; (cand.) Ph.D., University of Virginia, 2003.


Durmusoglu, Serdar (2007), Management and Marketing, Assistant Professor - B.S., Bogazrav University, 1997; M.B.A., Purdue University, 2001.


Elliott, Susan (2003), Law Library, Associate Professor - J.D., University of Dayton, 1987; M.L.S., Kent State University, 2002.


Elsass, Michael (2008), Chemical and Materials Engineering, Assistant Professor - B.S., University of Dayton, 1992; M.S., Ohio State University, 1997; Ph.D., 2001.

Elvers, Greg C. (1990), Psychology, Associate Professor - B.S., Purdue University, 1984; B.A., 1985; M.S., 1987; Ph.D., 1989.
Erdei, John E. (1983), Physics, Associate Professor - B.S., Cleveland State University, 1973; M.S., 1976; Ph.D., University of Cincinnati, 1983.
Ervin, Jamie S. (1991), Mechanical and Aerospace Engineering, Professor - B.S.M.E., Michigan Technological University, 1984; M.S.M.E., 1986; Ph.D., University of Michigan, 1991.
Eustace, Deogratias (2005), Environmental Engineering & Engineering Mechanics, Associate Professor - B.S., University of Dar-Es-Salaam, 1992; M.S., 1997; Ph.D., Kansas State University, 2001.
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.

Fleischmann, Ellen L. (1998), History, Associate Professor - B.A., Wesleyan University, 1977; Ph.D., Georgetown University, 1996.


Forbis, Jeremy S. (2008), Sociology, Anthropology, and Social Work, Assistant Professor - B.S., State University of New York at Brockport, 2001; M.A., Ohio State University, 2006; Ph.D., 2008.


Fried, Joel R. (2010), Chemical and Materials Engineering, WBI Endowed Chair in Nanomaterials – B.S., University of Dayton, 1971; M.S., University of Dayton, 1972; M.S., University of Massachusetts, 1975; Ph.D., University of Massachusetts, 1976.

Friese, Carl F. (1992), Biology, Associate Professor - B.S., University of Connecticut, 1982; M.S., University of Rhode Island, 1984; Ph.D., Utah State University, 1991.

Gabbe, Myrna (2005), Philosophy, Associate Professor - B.A., University of Wisconsin, 1995; Ph.D., University of Pennsylvania, 2005.


Gallagher, Colleen E. (2012), Teacher Education, Clinical Faculty – B.A., Xavier University, 2000; M.S., Georgetown University, 2005; Ph.D., Georgetown University, anticipated May 2012.

Gannon, Loren S., Jr. (1975), History, Adjunct Professor - B.S., University of Omaha, 1963; M.A., University of Dayton, 1970.


Davies, Susan (2006), Counselor Education and Human Services, Assistant Professor - B.A., University of North Carolina at Chapel Hill, 1995; M.S., Miami University, 1997; Sp.E., 1999.


Giglierano, Joan (2006), Library, Associate Professor - B.A., Ohio State University, 1974; M.A., Case Western Reserve University, 1977; M.L.S., Indiana University, 1988.

Glenn, Terri (2007), Health and Sport Science, Clinical Faculty - B.S., Daemen College, 1980; M.S., Ohio State University, 1986; Ph.D., 1990.

Gold, Scott A. (2010), Chemical and Materials Engineering, Associate Professor & ORS Endowed Chair in Multiscale Composites – B.S., University of Kentucky, 1996; M.S., Georgia Institute of Technology, 1999; Ph.D., Arizona State University.


Goodnight, Jackson A. (2010), Psychology, Assistant Professor - B.S., Xavier University, 2002; Ph.D., Indiana University, 2010.


Gratto, Sharon Davis (2008), Music, Professor - D.M.A., Catholic University of America, 1994.


Greenlee, Janet S. (1999), Accounting, Associate Professor - B.S., 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.

Gullen, Amy (2010), Library, Assistant Professor - B.A., Ohio Wesleyan University, 2005; M.S., University of Illinois, 2010.


Haan, Jennifer E. (2010), English, Assistant Professor - B.A., Calvin College, 1999; M.A., Purdue University, 2001; Ph.D., 2009.


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, 1988.

Han, Jee Hee. (2006), Communication, Assistant Professor - B.A., Sogang University, 1997; M.A., 1999; M.A., University of Georgia, 2001; M.S., 2002; Ph.D., Purdue University, 2007.
Haritashya, Umesh (2008), Geology, Visiting Assistant Professor - Ph.D., Indian Institute of Technology, 2005.
Harmon, Tracy (2009), Management and Marketing, Assistant Professor - B.S., Florida A&M University, 1998; M.B.A., Rollins College, 2002; Ph.D., University of Florida, 2007.
Harrod, Steven (2007), Management Information Systems, Operations Management, and Decision Sciences, Assistant Professor - B.S., Trinity College, 1989; M.S., Massachusetts Institute of Technology, 1993; M.S., University of Cincinnati, 2005; Ph.D., 2007.
Heitmann, John A. (1984), History, Professor - B.S., Davidson College, 1970; M.A., Clemson University, 1974; Ph.D., Johns Hopkins University, 1983.
Hiller, James M. (2001), Music, Lecturer - B.M., Capital University, 1982; M.M.T., Temple University, 1994; MT-BC.
Hoffmeister, Thaddeus (2007), Law, Associate Professor - B.A., Morgan State University, 1988; LL.M., Georgetown University, 2002.
Hovey, Peter W. (2001), Mathematics, Associate Professor - B.S., University of Dayton, 1975; M.S., University of Kentucky, 1977; Ph.D., 1980.


Hunley, Sawyer (1999), Counselor Education and Human Services, Associate Professor - B.S., Miami University, 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.


Islam, Muhammad (1985), Mathematics, Professor - B.S., University of Dhaka, Bangladesh, 1972; M.S., Carleton University, Ottawa, 1980; Ph.D., Southern Illinois University, 1985.

Jackson, Kurt (2006), Health and Sport Science, Associate Professor - B.S., Loma Linda University, 1992; M.P.T., 1992; Ph.D., Union Institute and University, 2002.

Jacobs, Mark (2009), Management Information Systems, Operations Management, and Decision Sciences, Assistant Professor - B.S., California Polytechnic State University, 1988; M.B.A., University of Minnesota, 2003; Ph.D., Michigan State University, 2008.


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.

James, V. Denise (2008), Philosophy, Assistant Professor - B.A., Spellman College, 1997; M.A., Emory University, 2007.

Janney, Jay J. (2001), Management and Marketing, Associate Professor - B.A., Ball State University, 1984; M.B.A., 1986; Ph.D., University of Kentucky, 1999.


Kango-Singh, Madhuri (2009), Biology, Assistant Professor - B.S., Vikram University, 1989; M.S., Devci Ahilya University, 1991; Ph.D., 1997.

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., 1988; Ph.D., University of Wisconsin, 1989.

Katsuyama, Ronald M. (1973), Psychology, Associate Professor - B.S., University of California, 1966; Ph.D., Vanderbilt University, 1977.

Kavanaugh, Jeffrey L. (2003), Biology, Lecturer - B.S., University of Kansas, 1984; M.S., 1988; Ph.D., Virginia Polytechnic Institute, 1998.

Kearns, Robert J. (1984), Biology, Professor - B.S., Washington State University, 1968; M.S., 1975; Ph.D., 1978; M.T. (ASCP), 1971.


Keen, Virginia (2007), Mathematics, Assistant Professor - B.A., Western Michigan University, 1972; M.A., 1975; Ph.D., Michigan State University, 1994.


Kelly, Katherine L. (2010), Library, Assistant Professor - B.S., Ohio University, 2008; M.S., Syracuse University, 2010.


Kirschman, Keri (2005), Psychology, Associate Professor - B.A., Denison University, 1997; M.A., University of Kansas, 1999; Ph.D., 2003.

Kozak, Michael J. (2008), Engineering Technology, Assistant Professor - B.S., University of Akron, 1982; M.S.M.E., University of Cincinnati, 1986; Reg. Prof. Engr.
Koziol, Andrea M. (1993), Geology, Associate Professor - B.A., Boston University, 1983; Ph.D., University of Chicago, 1988.
Krane, Carissa M. (2001), Biology, Associate 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 (2006), Mechanical and Aerospace Engineering, Professor - B.S., Banaras Hindu University, 1967; M.S., Pennsylvania State University, 1973; Ph.D., 1976.
Kurt, Layla (2012), Counselor Education, Clinical Faculty – B.S., Bowling Green State University, 1996; M. Ed., Bowling Green State University, 2002; Ph.D., University of Toledo, anticipated August 2012.
Lau, Terence J. (2002), Management and Marketing, Associate Professor - B.A., Wright State University, 1995; J.D., Syracuse University, 1998.
Laubach, Lloyd L. (1980), Health and Sport Science, Associate Professor - B.S., Central State University, 1961; M.S., University of Oregon, 1962; Ph.D., Ohio State University, 1970.
Lee, C. William (1982), Chemical and Materials Engineering, Professor - B.S., National Taiwan University, 1976; M.S., University of Akron, 1979; Ph.D., Ohio State University, 1982.


Li, Xiaoli (2012), English, Assistant Professor – B.A., Xi’an Foreign Language University, 1992; M.A., Bowling Green State University, 2002; Ph.D., Clemson University, 2011.


Liu, Ruihua (2004), Mathematics, Associate Professor - B.E., Nankai University, 1985; M.E., 1988; Ph.D. (Engineering), 1994; M.S., University of Georgia, 2001; Ph.D. (Mathematics), 2002.


Loochay, Elizabeth (2010), English, Lecturer - B.S., Appalachian State University, 1996; M.A., 2001; Ph.D., Miami University, 2007.


Mammana, Angela (2011), Chemistry, Assistant Professor – Ph.D., Universita degli Studi di Catania, 2008.


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Miller, Vincent (2009), Religious Studies, Professor & Gudorf Chair in Catholic Theology- M.A., University of Notre Dame, 1990; Ph.D., 1997.


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Williams, P. Kelly (1973), Biology, Professor - B.A., University of Texas, 1966; M.S., University of Minnesota, 1969; Ph.D., Indiana University, 1973.
Williams, Thomas M. (2009), Biology, Assistant Professor - B.S., Eastern Michigan University, 1999; M.S., University of Michigan, 2003; Ph.D., 2004.
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Wu, Shuang-Ye (2004), Geology, Visiting Assistant Professor - B.A., Nanjing University, 1991; M.A., Beijing Foreign Study University, 1994; M.Phil., Cambridge University, 1996; Ph.D., 2000.
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Yocum, Sandra (1992), Religious Studies, Associate Professor - B.A., University of Oklahoma, 1976; Ph.D., Marquette University, 1987.
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Economics and Finance  John Rapp
Educational Leadership  David A. Dolph
Electrical and Computer Engineering  Guru Subramanyam
Engineering Management and Systems  (Interim) Patrick Sweeney
Engineering Technology  Scott I. Segalewitz
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Visual Arts  Judith L. Huacuja

academic programs

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university libraries

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Executive Director, Marian Library, International Marian Research Institute (IMRI)  Francois Rossier, S.M.

research

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campus ministry

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### Human Resources

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### student development

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<td>Brian S. Turner</td>
</tr>
<tr>
<td>Technology Support Specialist</td>
<td>Chris Wagner</td>
</tr>
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<td>Daniel J. Craighead</td>
</tr>
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**University Advancement**

<table>
<thead>
<tr>
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</tr>
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<tr>
<td>Vice President for University Advancement</td>
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<td>Karla T. Brooks</td>
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<tr>
<td>Assistant Vice President for Constituent Relations</td>
<td>Joyce E. Dean</td>
</tr>
<tr>
<td>Assistant to the Vice President/ Director of Athletics</td>
<td>Debbie Seaman</td>
</tr>
<tr>
<td>Associate Vice President of Athletics</td>
<td>Vacant</td>
</tr>
<tr>
<td>Assistant to the Associate Vice President of Athletics</td>
<td>Vacant</td>
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<tr>
<td>Assistant Director, Athletics/ Director of Compliance</td>
<td>Neil Sullivan</td>
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<tr>
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<td>Men’s Cross Country Coach</td>
<td>Rich Davis</td>
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**Athletic Programs and Facilities**

<table>
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<tr>
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<tr>
<td>Vice President/Director of Athletics</td>
<td>Tim Wabler</td>
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</table>

| Assistant Director, KU Operations          | Leon A. Presock             |
| Night Operations Manager                   | Allison Moon                |
| Assistant Director, Conference and Business Services | Gwyn F. Stump             |
| Associate Director, Scheduling and Events  | Amy V. Lee                  |
| Assistant Director, Summer Conferences and Information Technology | Christopher Johnson |
| Assistant Director, New Student Programs   | Melissa T. Flanagan         |
| Director, Greek Life and Leadership Programs | Kevin M. Crane             |
| Assistant Director, Greek Life and Leadership Programs | Vacant                      |
| Assistant Vice President of Student Development and Director of the Counseling Center | Steven D. Muller             |
| Director, Campus Recreation                | David B. Ostrander          |
| Associate Director, Campus Recreation      | Donn W. Shade               |
| Director, Student Health                   | Mary P. Buchwalder, M.D.    |
| Assistant Dean of Students and Director, Community Wellness Services | Clare Dever                   |
| Associate Director, Counseling Center      | Rebecca Cook                |
| Assistant Director, Counseling Center      | Erin Shiner                 |
| Director, Communications and Community Relations | Edel M. Jesse             |
| Director, Information Technology           | Brian S. Turner             |
| Technology Support Specialist              | Chris Wagner                |
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**General Information**

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<tr>
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<tr>
<td>Women’s Cross Country Coach</td>
<td>Sarah Hinkley</td>
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<tr>
<td>Women’s Head Track &amp; Field Coach</td>
<td>Vacant</td>
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<tr>
<td>Head Football Coach</td>
<td>Rick Chamberlin</td>
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<tr>
<td>Assistant Coaches</td>
<td>Landon Fox, Chris Ochs, Dave Whilding</td>
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<tr>
<td>Men’s Head Golf Coach</td>
<td>Gip Hoagland</td>
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<td>Women’s Head Golf Coach</td>
<td>Sally Kosters</td>
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<td>Women’s Head Rowing Coach</td>
<td>Mike Wenker</td>
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<td>Men’s Head Soccer Coach</td>
<td>Dennis Currier</td>
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<td>Gabe Hall, Richardo Lara</td>
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<td>Women’s Head Soccer Coach</td>
<td>Mike Tucker</td>
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<td>Assistant Coaches</td>
<td>Eric Golz, Tiffany Hansen</td>
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<tr>
<td>Head Softball Coach</td>
<td>Cara Clark LaPlaca</td>
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<td>Assistant Coach</td>
<td>Sarah Harman</td>
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<tr>
<td>Men’s &amp; Women’s Tennis Coach</td>
<td>Eric Mahone</td>
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<td>Head Volleyball Coach</td>
<td>Kelly Sheffield</td>
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<td>Assistant Coaches</td>
<td>Matt Affolder, Brittany Didine</td>
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<tr>
<td>Manager of Sports Medicine</td>
<td>Nate Seymour</td>
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<tr>
<td>Head Trainer</td>
<td>Steve Foster</td>
</tr>
<tr>
<td>Assistant Trainer</td>
<td>Jaime Potter</td>
</tr>
<tr>
<td>Equipment &amp; Awards Manager</td>
<td>Tony Caruso</td>
</tr>
<tr>
<td>Faculty Athletics Representative</td>
<td>J. Michael O’Hare, Ph.D.</td>
</tr>
</tbody>
</table>

**Research Institute Staff**

Abfalter, Garry H. (1988), Senior Research Engineer - B.M.E., University of Detroit, 1968; M.S., Oklahoma State University, 1972.

Adams, Ryan K. (2009), Associate Research Chemical Engineer - B.S., University of Dayton, 2007; M.S., 2009.


Amama, Placidus Bepeh (2008), Research Scientist - B.S., University of Calabar, 1992; Ph.D., Yokohama National University, 2002.


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Buhrmaster, Diane (2003), Senior Research Engineer/Scientist - B.S., Wright State University, 1998; B.S., 2001.

Burke, Jack L. (2006), Associate Research Engineer - B.S., Wright State University, 2006; M.S., University of Dayton, 2008.

Byrd, R. Alan (2004), Senior Research Engineer - B.S., Georgia Institute of Technology, 1982; M.S., 1983.

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Cybenko, Anne K. (2010), Associate Research Psychologist - B.S., Colgate University, 2005; M.S., 2008; Ph.D., 2010.

Davies, Matthew J. (1999), Senior Research Engineer - B.S., University of Dayton, 1998; M.S.M.E., 2002.

Desimio, Martin P. (2008), Senior Research Engineer - B.S., Wright State University, 1983; M.S., Air Force Institute of Technology, 1987; Ph.D., University of Dayton, 1993.

Detweiler, Philip L. (2008), Senior Research Engineer - B.S., University of Dayton, 1988; M.S., Purdue University, 1990; Ph.D., University of Dayton, 2002.

DeWitt, Matthew J. (2001), Group Leader-Senior Research Engineer - B.S., Ohio State University, 1994; Ph.D., Northwestern University, 1999.


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Emo, Stephen M. (2009), Senior Thermal Systems Engineer - B.S., University of Illinois at Urbana-Champaign, 1977.

Erdahl, Dathan S. (2004), Research Engineer - B.S., University of Dayton, 1997; M.S., Georgia Institute of Technology, 2000; Ph.D., 2005.

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Fernando, K. A. Shiral (2007), Research Scientist - B.S., University of Keleniya, 2002; Ph.D., Clemson University, 2007.


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McCaleb, Robert F. (2008), Systems Engineer.

McCray, Daniel B. (1977), Senior Research Materials Engineer - B.S., Wright State University, 1995; M.S., University of Dayton, 1997.


Miller, Barbara A. (2006), Research Scientist - B.S., Wright State University, 2001; M.S., Clemson University, 2006.

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Murray, Paul T. (1982), Senior Research Chemist - B.S., University of Cincinnati, 1974; Ph.D., University of North Carolina, 1979.

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Zhang, Qiuhong (2011), Materials Scientist.

Zhou, Eric Guangming (2005), Research Engineer - B.S., China Textile University, 1986; M.S., Kansas State University, 1999.
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Paul H. Benson, Dean
Donald L. Pair, Associate Dean
Donald J. Polzella, Associate Dean
John E. Erdei, Assistant Dean
Cynthia T. Shafer, Assistant Dean
Timothy A. Wilbers, 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 to 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, and 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:
• American Studies (p. 116)
• Art History (p. 250)
• Chemistry (p. 126)
• Communication (p. 132)
• Criminal Justice Studies (p. 143)
• Economics (p. 146)
• English (p. 149)
• French (p. 181)
• German (p. 181)
• History (p. 161)
• Human Rights (p. 221)
• International Studies (p. 167)
• Languages (p. 181)
• Mathematics (p. 191)
• Music (p. 198)
• Philosophy* (p. 212)
• Political Science (p. 221)
• Psychology (p. 229)
• Religious Studies (p. 233)
• Sociology* (p. 239)
• Spanish (p. 181)
• Theatre (p. 246)
• Visual Arts (p. 248)
• Women’s and Gender Studies (p. 259)

* Major programs offered in India in conjunction with the Marianists.

The Bachelor of Science is offered in:
• Applied Mathematical Economics (p. 192)
• Biochemistry (p. 128)
• Biology (p. 119)
• Chemistry (p. 127)
• Computer Information Systems (p. 140)
• Computer Science (p. 140)
• Environmental Biology (p. 121)
• Environmental Geology (p. 157)
• Environmental Geology (p. 157)
• Environmental Geology (p. 157)
• Geology (p. 158)
• Mathematics (p. 191)
• Medicinal-Pharmaceutical Chemistry (p. 127)
• Physical Science (p. 217)
• Physics (p. 218)
• Physics-Computer Science (p. 218)
• Predentistry (p. 227)
• Premedicine (p. 228)
• Psychology (p. 230)

Other programs leading to the bachelor’s degree:
• Art Education (B.F.A.) (p. 250)
• Fine Arts (B.F.A.) (p. 251)
• General Studies (B.G.S.) (p. 156)
• Graphic Design (B.F.A.) (p. 251)
• Music Composition (B.Mus.) (p. 200)
• Music Education (B.Mus.) (p. 198)
• Music Performance (B.Mus.) (p. 203)
• Music Therapy (B.Mus.) (p. 203)
• Photography (B.F.A.) (p. 252)

Established Interdisciplinary Majors
American Studies (p. 116), Criminal Justice Studies (p. 143), International Studies (p. 167), Premedicine (p. 228), Pre-Dentistry (p. 227), and Women’s and Gender Studies (p. 259) are present examples of established interdisciplinary majors. 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.

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.

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

Literature
Students complete 3 semester hours in literature selected from a list of approved courses.

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.

L2 Proficiency:
(Proficiency in a language other than English) Students demonstrate basic practical communication in a language other than English in one of three ways:

1. Students may choose to demonstrate proficiency equivalent to the completion of the 201 level by examination (Zero semester hours).

2. Students may choose to demonstrate proficiency equivalent to the completion of the 141 level by examination, and one of the following four sub-options matching the language course at the 141 level (Zero to three semester hours):
   a. 201 level language course
   b. Approved study abroad/intercultural experience
   c. Approved service learning experience
   d. Approved Contextual Course

3. Students may choose to demonstrate proficiency by completion of a language course at the 141 level and any necessary prerequisites, and one of the following four sub-options matching the language course at the 141 level (four to eleven semester hours):
   a. 201 level language course
   b. Approved study abroad/intercultural experience
   c. Approved service learning experience
   d. Approved Contextual Course.

No credit is awarded through the proficiency examination. The range of semester hours to complete the L2 requirement in Arabic, Chinese and Hindi is zero to twelve.

Social Sciences
Students complete 12 semester hours including two courses at the introductory level from at least two different traditional disciplines:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
<td>3</td>
</tr>
<tr>
<td>POL 101</td>
<td>Global Politics</td>
<td>3</td>
</tr>
<tr>
<td>or POL 201</td>
<td>Amer Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Introductory Psych</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Prin of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 204</td>
<td>Mod Social Problems</td>
<td></td>
</tr>
</tbody>
</table>
Courses for Literature are as follows:

**Mathematics**

Students complete 3 semester hours selected from courses in the Department of Mathematics (MTH 102, MTH 204, MTH 205 excluded).

**Natural Sciences**

Students complete a sequence of 3 lecture courses with 2 accompanying laboratories in the Integrated Natural Science Sequence for a total of 11 semester hours. Students who wish to do more advanced study in science may complete 9 semester hours in science courses approved for majors in the departments of biology, chemistry, geology, and physics and 2 sem. hrs. of accompanying laboratories in lieu of the Integrated Natural Science Sequence.

1 Students should consider using this area of study to help fulfill the general education Thematic Cluster requirement. A Thematic Cluster includes a minimum of three courses, each course selected from a separate area (Philosophy, Religious Studies, Historical Studies, Arts Studies, Social Science, and Natural Science).

2 Courses for Literature are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENG 230</td>
<td>Topics-Literature</td>
<td>1-6</td>
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<tr>
<td>ENG 301</td>
<td>Survey-Early Eng Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 305</td>
<td>Survey-American Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 317</td>
<td>Contemporary Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENG 320</td>
<td>Contemporary Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 322</td>
<td>Mstrpc-World Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 323</td>
<td>Lit-Christn Tradn</td>
<td>3</td>
</tr>
<tr>
<td>ENG 324</td>
<td>The Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 325</td>
<td>Science Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 326</td>
<td>Sport &amp; Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 327</td>
<td>Studies-Populr Fictn</td>
<td>3</td>
</tr>
<tr>
<td>ENG 328</td>
<td>Amer Nobel Authors</td>
<td>3</td>
</tr>
<tr>
<td>ENG 329</td>
<td>Short Story</td>
<td>3</td>
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<tr>
<td>ENG 330</td>
<td>Development of Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 332</td>
<td>Studies-Lit &amp; Film</td>
<td>3</td>
</tr>
<tr>
<td>ENG 333</td>
<td>Images-Women in Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 334</td>
<td>Modern Men-Images</td>
<td>3</td>
</tr>
<tr>
<td>ENG 335</td>
<td>African Amer Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 336</td>
<td>Gender in Fiction</td>
<td>3</td>
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<tr>
<td>ENG 337</td>
<td>Studies-Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENG 338</td>
<td>Images of Business</td>
<td>3</td>
</tr>
<tr>
<td>ENG 339</td>
<td>American Indian Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 340</td>
<td>Prison in Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 343</td>
<td>Lit of the Fifties</td>
<td>3</td>
</tr>
<tr>
<td>ENG 344</td>
<td>Lit of the Sixties</td>
<td>3</td>
</tr>
<tr>
<td>ENG 345</td>
<td>Coloni&amp;Postcoln Lit</td>
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</tr>
<tr>
<td>ENG 348</td>
<td>Modern Irish Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 350</td>
<td>Eurpn Lit-Antiquity</td>
<td>3</td>
</tr>
<tr>
<td>ENG 351</td>
<td>Eurpn Lit-Midl Ages</td>
<td>3</td>
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<tr>
<td>ENG 353</td>
<td>Lit-Renaissance</td>
<td>3</td>
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<tr>
<td>ENG 354</td>
<td>Lit-Enlightenment</td>
<td>3</td>
</tr>
<tr>
<td>ENG 355</td>
<td>Lit-Romantic Age</td>
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</tr>
<tr>
<td>ENG 356</td>
<td>Eurpn Lit-19th Cent</td>
<td>3</td>
</tr>
<tr>
<td>ENG 357</td>
<td>Eurpn Lit-Early 20th</td>
<td>3</td>
</tr>
<tr>
<td>ENG 358</td>
<td>Contemp Lit-Europe</td>
<td>3</td>
</tr>
<tr>
<td>ENG 362</td>
<td>Shakespeare</td>
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<td>ENG 363</td>
<td>Shakespeare's Worlds</td>
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<tr>
<td>ENG 380</td>
<td>Studies in Lit</td>
<td>1-6</td>
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<tr>
<td>ENG 383</td>
<td>Tragic Dilemma</td>
<td>3</td>
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<tr>
<td>ENG 384</td>
<td>Chrnty&amp;Mod Poetry</td>
<td>3</td>
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<tr>
<td>ENG 385</td>
<td>Rel &amp; Literature</td>
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<tr>
<td>ENG 405</td>
<td>Chaucer</td>
<td>3</td>
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<tr>
<td>ENG 407</td>
<td>Medieval English Lit</td>
<td>3</td>
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<tr>
<td>ENG 410</td>
<td>Early Renaissance Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 414</td>
<td>Later Renaissance Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 431</td>
<td>Milton</td>
<td>3</td>
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<tr>
<td>ENG 433</td>
<td>Stds-Neo-Classcl Lit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 438</td>
<td>English Romanticism</td>
<td>3</td>
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<tr>
<td>ENG 444</td>
<td>Stds-19th Cn Eng Lit</td>
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<tr>
<td>ENG 448</td>
<td>20th Centr British Lit</td>
<td>3</td>
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<tr>
<td>ENG 451</td>
<td>American Romanticism</td>
<td>3</td>
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<tr>
<td>ENG 453</td>
<td>Amer Realism&amp;Natrlsm</td>
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<tr>
<td>ENG 455</td>
<td>20th Centrury Amer Lit</td>
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<tr>
<td>ENG 482</td>
<td>Modern Poetry</td>
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<tr>
<td>FRN 350</td>
<td>French Lit In Tmsl</td>
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<tr>
<td>FRN 352</td>
<td>Old World&amp;New (ENG)</td>
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<td>FRN 360</td>
<td>Explicatn De Textes</td>
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<tr>
<td>FRN 361</td>
<td>Survey-French Lit I</td>
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<tr>
<td>FRN 362</td>
<td>Survey-French Lit II</td>
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<tr>
<td>FRN 381</td>
<td>History-Frn Cinema</td>
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<tr>
<td>FRN 450</td>
<td>French Literature</td>
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<tr>
<td>FRN 452</td>
<td>Old Wrld Meets New</td>
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<tr>
<td>GER 350</td>
<td>German Lit In Trns</td>
<td>3</td>
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<tr>
<td>GER 361</td>
<td>Survey of Ger Lit I</td>
<td>3</td>
</tr>
<tr>
<td>GER 362</td>
<td>Survey of Ger Lit II</td>
<td>3</td>
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<td>GER 450</td>
<td>German Literature</td>
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<tr>
<td>ITA 361</td>
<td>Survey-Italin Lit I</td>
<td>3</td>
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<tr>
<td>ITA 362</td>
<td>Survey-Italin Lit II</td>
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<tr>
<td>SPN 350</td>
<td>Hispanic Lit In Trans</td>
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<tr>
<td>SPN 361</td>
<td>Surv-Spanish Lit I</td>
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<tr>
<td>SPN 362</td>
<td>Surv-Spanish Lit II</td>
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<tr>
<td>SPN 363</td>
<td>Surv Spn Am Lit I</td>
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<td>SPN 364</td>
<td>Surv Spn Am Lit II</td>
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<tr>
<td>SPN 450</td>
<td>Spanish Literature</td>
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<td>SPN 451</td>
<td>Spn-Amer Literature</td>
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<tr>
<td>SPN 471</td>
<td>TP-Spn Lit-20th Cent</td>
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<tr>
<td>SPN 472</td>
<td>Spn Lit-20th Cent II</td>
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3 Courses for Creative and Performing Arts are as follows:

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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ASI 214</td>
<td>Drama Kinesics</td>
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<tr>
<td>ASI 341</td>
<td>Topics Arts Study</td>
<td>1-3</td>
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<tr>
<td>CMM 311</td>
<td>Stds-Oral Perfrrmnce</td>
<td>3</td>
</tr>
<tr>
<td>CMM 331</td>
<td>Feature Writing</td>
<td>3</td>
</tr>
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<td>CMM 332</td>
<td>Publication Design</td>
<td>3</td>
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<tr>
<td>CMM 333</td>
<td>Free Lance Writing</td>
<td>3</td>
</tr>
<tr>
<td>CMM 341</td>
<td>Audio Production</td>
<td>3</td>
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<tr>
<td>CMM 342</td>
<td>Fund-Video Productn</td>
<td>3</td>
</tr>
<tr>
<td>CMM 343</td>
<td>Scriptwrting-Elec Med</td>
<td>3</td>
</tr>
<tr>
<td>CMM 344</td>
<td>Multimedia Dsgn/Prd I</td>
<td>3</td>
</tr>
<tr>
<td>CMM 351</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>CMM 442</td>
<td>Adv Television Prod</td>
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<td>CMM 444</td>
<td>Multimedia Den&amp;Prd II</td>
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<td>CMM 449</td>
<td>Top-Electronic Media</td>
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<tr>
<td>ENG 282</td>
<td>Intro-Writing Poetry</td>
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<td>ENG 284</td>
<td>Intro-Writing Fiction</td>
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<td>ENG 286</td>
<td>Intro-Writing Drama</td>
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<td>ENG 308</td>
<td>Intrmd Poetry Wkshop</td>
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<td>ENG 310</td>
<td>Intrmd Fiction Wkshp</td>
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<tr>
<td>ENG 312</td>
<td>Adv Writing-Drama</td>
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<tr>
<td>ENG 331</td>
<td>Studies in Film</td>
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<tr>
<td>ENG 382</td>
<td>Mozart's Operas</td>
<td>3</td>
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<tr>
<td>MUS 110</td>
<td>Fundamentals of Mus</td>
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<td>MUS 111</td>
<td>Theory of Music I</td>
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<td>MUS 112</td>
<td>Theory of Music II</td>
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<td>MUS 113</td>
<td>Aural Skills I</td>
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<tr>
<td>MUS 114</td>
<td>Aural Skills II</td>
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<td>Music Theory Prac</td>
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<td>MUS 116</td>
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<td>Beg Guitar Class I</td>
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<td>MUS 196</td>
<td>Group Piano I</td>
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<td>MUS 201</td>
<td>Music in Concert</td>
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<tr>
<td>MUS 203</td>
<td>Sights &amp; Sounds-Music</td>
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<td>MUS 205</td>
<td>Mus, Instrumnts &amp; Tech</td>
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<tr>
<td>MUS 295</td>
<td>Beg Guitar Class II</td>
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<td>MUS 301</td>
<td>Mus Hist &amp; Lit I</td>
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<td>MUS 302</td>
<td>Mus Hist &amp; Lit II</td>
<td>3</td>
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<td>MUS 303</td>
<td>Intro World Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 304</td>
<td>Hst of Amer Music</td>
<td>3</td>
</tr>
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<td>MUS 305</td>
<td>Africn Amer Sac Mus</td>
<td>3</td>
</tr>
<tr>
<td>MUS 306</td>
<td>History-Amer Jazz</td>
<td>3</td>
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<tr>
<td>MUS 307</td>
<td>Dev Amer Popr Song</td>
<td>3</td>
</tr>
<tr>
<td>MUS 309</td>
<td>Opera Hst &amp; Lit</td>
<td>3</td>
</tr>
<tr>
<td>MUS 310</td>
<td>Mozart's Operas</td>
<td>3</td>
</tr>
<tr>
<td>MUS 328</td>
<td>Hst-Amer Musical</td>
<td>3</td>
</tr>
<tr>
<td>MUS 399</td>
<td>Performance Studies</td>
<td>1-2</td>
</tr>
<tr>
<td>MUS 491</td>
<td>University Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUS 492</td>
<td>Symphonic Wind Ens</td>
<td>1</td>
</tr>
<tr>
<td>MUS 493</td>
<td>University Chorale</td>
<td>1</td>
</tr>
<tr>
<td>MUS 499</td>
<td>Performance</td>
<td>4</td>
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<tr>
<td>THR 100</td>
<td>Theatre Lab</td>
<td>1-3</td>
</tr>
<tr>
<td>THR 105</td>
<td>Intro to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR 201</td>
<td>Basic Dance</td>
<td>2-3</td>
</tr>
<tr>
<td>THR 202</td>
<td>Stage Makeup</td>
<td>2</td>
</tr>
<tr>
<td>THR 203</td>
<td>Technical Productn</td>
<td>3</td>
</tr>
<tr>
<td>THR 251</td>
<td>Beginning Tap Dance</td>
<td>2</td>
</tr>
<tr>
<td>THR 261</td>
<td>Beginning Jazz Dance</td>
<td>2-3</td>
</tr>
<tr>
<td>THR 271</td>
<td>Beginning Ballet</td>
<td>2-3</td>
</tr>
<tr>
<td>THR 300</td>
<td>Theatre Lab</td>
<td>1-3</td>
</tr>
<tr>
<td>THR 301</td>
<td>Intermediate Dance</td>
<td>2</td>
</tr>
<tr>
<td>THR 303</td>
<td>Scene Painting</td>
<td>3</td>
</tr>
<tr>
<td>THR 305</td>
<td>Theatre Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THR 307</td>
<td>Theatre Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THR 310</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THR 312</td>
<td>Acting-Film &amp; TV</td>
<td>3</td>
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<tr>
<td>THR 320</td>
<td>Stage Mvmt &amp; Voice</td>
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<tr>
<td>THR 323</td>
<td>Acting II</td>
<td>3</td>
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<tr>
<td>THR 325</td>
<td>Thry&amp;Crtsm Stage: I</td>
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<tr>
<td>THR 326</td>
<td>Thry&amp;Crtsm stage:II</td>
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<tr>
<td>THR 330</td>
<td>Concepts Scene Desgn</td>
<td>3</td>
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<tr>
<td>THR 344</td>
<td>Act/Dir-Musical Thr</td>
<td>3</td>
</tr>
<tr>
<td>THR 351</td>
<td>Intermd Tap Dance</td>
<td>3</td>
</tr>
<tr>
<td>THR 361</td>
<td>Intermd Jazz Dance</td>
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<tr>
<td>THR 371</td>
<td>Intermediate Ballet</td>
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<tr>
<td>VAF 104</td>
<td>Foundation Drawing</td>
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<tr>
<td>VAF 112</td>
<td>Foundation 2-D Dsgn</td>
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<tr>
<td>VAF 117</td>
<td>Foundation 3-D Dsgn</td>
<td>3</td>
</tr>
<tr>
<td>VAF 204</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 226</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 228</td>
<td>Watercolot I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 232</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 253</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 304</td>
<td>Drawing III</td>
<td>3</td>
</tr>
<tr>
<td>VAF 325</td>
<td>Figure Painting</td>
<td>3</td>
</tr>
<tr>
<td>VAF 326</td>
<td>Painting II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 328</td>
<td>Watercolor II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 332</td>
<td>Sculpture II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 342</td>
<td>Ceramics III</td>
<td>3</td>
</tr>
<tr>
<td>VAF 353</td>
<td>Printmaking II</td>
<td>3</td>
</tr>
<tr>
<td>VAH 101</td>
<td>Intro-Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>VAH 201</td>
<td>Survey of Art I</td>
<td>3</td>
</tr>
<tr>
<td>VAH 202</td>
<td>Survey of Art II</td>
<td>3</td>
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<tr>
<td>VAH 203</td>
<td>Survey of Art III</td>
<td>3</td>
</tr>
<tr>
<td>VAH 350</td>
<td>Western Architecture</td>
<td>3</td>
</tr>
<tr>
<td>VAH 360</td>
<td>Art History&amp;Feminsm</td>
<td>3</td>
</tr>
<tr>
<td>VAH 370</td>
<td>American Art</td>
<td>3</td>
</tr>
</tbody>
</table>
VAH 382  Hst of Photography I  3
VAH 383  Hst-Graphic Design  3
VAP 101  Foundatn Photography  3
VAP 201  Photography II  3
VAR 210  Visual Journal  3
VAR 220  Visual Resources  3

4 Contextual courses may be General Education approved and used to satisfy Cluster and/or major or minor requirements. The contextual courses are as follows for each of the matching languages:

**Arabic (ARA)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
HST 333  Hst of Mode Mdle East  3
HST 334  Hst Pal-Islf Cflct  3
HST 354  Hst-Women Mid East  3
HST 356  Women in Third World  3
HST 493  Sem In Mid East Hst  3
PHL 351  Medievel Philosophy  3

**Chinese (CHI)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
ENG 341  Asian-American Lit  3
HST 330  Hst E Asia to 1800  3
HST 332  Modern China&Japan  3
PHL 355  Asian Philosophy  3

**French (FRN)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
ENG 353  Lit-Renaissance  3
ENG 407  Medieval English Lit  3
HST 383  Hst of Caribbean  3
POL 320  Western Europe  3
THR 415  Hst of the Theatre I  3
THR 425  Hst of Theatre II  3

**German (GER)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
POL 320  Western Europe  3
THR 415  Hst of the Theatre I  3
THR 425  Hst of Theatre II  3

**Hindi (HND)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
HST 356  Women in Third World  3
THR 415  Hst of the Theatre I  3

**Italian (ITA)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
ENG 353  Lit-Renaissance  3
THR 415  Hst of the Theatre I  3
VAH 450  Itl Renaissance Art  3

**Latin (LAT)**
HST 303  Hst Roman Rep&Emp  3
PHL 351  Medievel Philosophy  3
THR 415  Hst of the Theatre I  3
THR 425  Hst of Theatre II  3

**Russian (RUS)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
HST 326  Hst-Sov Un 1860-Pr  3
POL 321  Russia&New States  3

**Spanish (SPN)**
CMS 316  Intercultural Comm  3
CMS 414  Global Communication  3
ENG 360  Latina/Latino Lit  3
HST 357  Latin Amer-20th Cen  3
HST 358  Soc&Cult Hst-Lat Am  3
HST 382  History of Mexico  3
HST 383  Hst of Caribbean  3
HST 384  Econ Hst of Lat Am  3
SOC 368  Immigration  3

**Summary of Requirements for the B.A.**

**Major**

<table>
<thead>
<tr>
<th>Liberal Studies Curriculum</th>
<th>12</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</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>L2 Proficiency (Proficiency in a language other than English)</td>
<td>0-11</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
<tr>
<td>General Competencies</td>
<td>3-9</td>
</tr>
<tr>
<td>Introduction to the University</td>
<td>0-1</td>
</tr>
<tr>
<td>Electives to total 124 hours</td>
<td>8-44</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>91-160</td>
</tr>
</tbody>
</table>

1 For specifics of the requirement, please refer to the Bulletin section: College of Arts and Sciences - General Requirements for all Bachelor of Arts Programs.

**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.

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

| 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.)

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

| Total Hours | 111-180 |

### 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.

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| Natural Sciences: Selected from Biology, Chemistry, Geology, and Physics courses with accompanying laboratories. | 8 |
| 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, Management, Marketing, Military Science, Social Work, and appropriate courses in ASI, AMS, and CMS. | 6 |
| Humanities: American Studies, Communication, English, History, Humanities Studies, Languages, Music, Philosophy, Religious Studies, Visual Arts, and, with the approval of the chairperson of the major department or director of the program, appropriate courses in ASI. (The basic Philosophy, Religious Studies, and communication skills courses do not fulfill this requirement.) | 9 |
| Philosophy and Religious Studies | 12 |
| Communication Competencies: Each student should demonstrate competence in written and oral communication. This competence may be demonstrated through coursework, proficiency examinations, or advanced standing. Information on this matter should be sought in the office of the dean. | 3-9 |

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| ENG 100 & ENG 200 | Writing Seminar I & Writing Seminar II | 3 |
| or ENG 200H | Writing Seminar II |
| or ENG 100A & ENG 100B | Writing Seminar IA & Writing Seminar 1B |
| CMM 110 | Group Dec-Making |
| CMM 111 | Inform Public Sp |
| or CMM 112 | Persuasive Public Sp |
| CMM 113 | Interviewing |

### 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. In addition, a maximum of one semester hour from ASI 150, VAR 100, or an equivalent course 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.

### L2 Entrance Requirement

Any student admitted to the College of Arts and Sciences must have had two years of high school study of a language other than English (L2) 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:

- ARA 141: Basic Profncy ARA II
- CHI 141: Basic Profncy CHI II
- FRN 141: Basic Profncy Frn II
- GER 141: Basic Profncy GER II
- ITA 141: Basic Profncy ITA II
- LAT 141: Basic Profncy LAT II
- RUS 141: Basic Profncy Rus II
- SPN 141: Basic Profncy Spn II

### Proficiency in L2

The College of Arts and Sciences strongly encourages its students to acquire the highest level of L2 proficiency. Students may show proficiency by demonstration of basic practical communicative competence in a language other than English. Proficiency for modern languages includes the following four skills:

- **Speaking:** Ability to handle successfully a limited number of interactive, task-oriented, and social situations. Can ask and answer questions, initiate and respond to simple statements, and maintain face-to-face conversation, although with hesitancy and linguistic inaccuracies. Speech is generally understood by native speakers used to interacting with language learners.

- **Writing:** Ability to write simple messages and descriptions on familiar topics, to provide biographical information, and to express interests and preferences by recombining learned vocabulary and structures. Some effort may be required from native speakers to understand the written messages.

- **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.

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

The Department of Languages offers the following possible sequences of language courses:

- Basic Proficiency
  For students who have never studied the language previously or who demonstrate no functional ability: 101-141 (8 sem. hrs.) in Arabic, Chinese, French, German, Italian, Latin, Russian and Spanish.

- Accelerated sequence
  For students with previous language study or experience who demonstrate some functional ability on the placement/proficiency examination: 131-141 (6 sem. hrs.) available in French, German, Latin and Spanish.

- Capstone course (201)
  For students with significant language study or experience: (4 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 L2 proficiency by satisfying the University General Competencies requirements in writing and oral communication.

**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 and Continuing Education**

To serve adults in the Dayton community, the University provides a variety of noncredit courses, many in the form of workshops, seminars, study tours, and conferences. 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, Osher Lifelong Learning Institute, Senior Fellows, and New Horizons Band, for persons fifty and over. Continuing Education Units (CEU) are awarded for a fee for some offerings.

**Teacher Licensure for Students in Bachelor of Arts and Bachelor of Science**

B.A. or B.S. with Teacher Licensure

Students in the College of Arts and Sciences may be able to complete the requirements for a teaching license without transferring to the School of Education and Allied Professions. For additional information regarding this option consult the Dean’s office in the College of Arts and Sciences.

Enrollment, continuation, and successful completion in this program are 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 and Allied Professions.

In order to complete all requirements in four years, a student in the College of Arts and Sciences should process an application for admission to the appropriate licensure program during the second semester of enrollment to begin the professional education sequence. Screening will be completed by the SOEAP transfer official. The requirements for the College of Arts and Sciences, the School of Education and Allied Professions, and licensure program concentration courses must be completed in order to be eligible for licensure recommendation. It is
possible for students to earn dual degrees in the College of Arts and Sciences and School of Education and Allied Professions.

**Programs of Study**

To learn more about the available programs in the College of Arts and Sciences, explore the departments in the menu on the right.

**Africana Studies**

The Africana studies minor offers an interdisciplinary approach to the study of the peoples of Africa and African descendants in the Americas, Africa and throughout the Diaspora. Through its courses, the minor encourages service at the local, national, and international level. The minor prepares distinctive graduates to develop and use analytical skills and approaches to understand historical and contemporary issues associated with the experience of Africans and African descendants. The minor is interdisciplinary and structured to incorporate teaching and research methodologies and materials from disciplines in the College of Arts and Sciences and other schools throughout the University.

The Africana studies minor requires 15 semester hours. It must include one approved “Special Topics” or “Independent Study” course from an appropriate discipline and 12 semester hours in upper division courses (300-level or above) from a minimum of three different disciplines.

**Africana Studies Committee**

Julius A. Amin (History), Coordinator
Cox (Music), Kebede (Philosophy), Randall (Law)

**Minor in Africana Studies (AFS)**

Select courses from at least three different disciplines: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDT 340</td>
<td>Ed Dvse St Pop -Incl</td>
</tr>
<tr>
<td>ENG 335</td>
<td>African Amer Lit</td>
</tr>
<tr>
<td>HST 336</td>
<td>Hst-Africa 19th Cn</td>
</tr>
<tr>
<td>HST 337</td>
<td>Hst Afr-19th Cn-Pr</td>
</tr>
<tr>
<td>HST 383</td>
<td>Hst of Caribbean</td>
</tr>
<tr>
<td>HST 385</td>
<td>Atlantic World</td>
</tr>
<tr>
<td>HST 398</td>
<td>Hs Blks-US 1526-1900</td>
</tr>
<tr>
<td>HST 399</td>
<td>Hst Blks-US s/1900</td>
</tr>
<tr>
<td>HST 488</td>
<td>Sem in African Hst</td>
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<tr>
<td>MUS 305</td>
<td>Africn Amer Sac Mus</td>
</tr>
<tr>
<td>MUS 306</td>
<td>History-Amer Jazz</td>
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<td>MUS 390</td>
<td>Ensembles</td>
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<td>PHL 363</td>
<td>African Philosophy</td>
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<td>PHL 364</td>
<td>Race, Gender&amp;Phl</td>
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<tr>
<td>REL 329</td>
<td>African Amer Rel</td>
</tr>
<tr>
<td>SOC 328</td>
<td>Racial&amp;Eth Minorities</td>
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Select special topics courses from: 3

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<th>Course Title</th>
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<tr>
<td>MUS 360</td>
<td>Special Topics-Music</td>
</tr>
<tr>
<td>REL 492</td>
<td>Special Topics</td>
</tr>
<tr>
<td>VAH 490</td>
<td>Special Problems</td>
</tr>
</tbody>
</table>

Special topics or independent studies course approved by committee

Total Hours 15

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**Air Force Aerospace Studies, ROTC (AES)**

As a University of Dayton student, you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University’s Department of Aerospace Studies. We offer the Air Force Reserve Officer Training Corps (ROTC) program to full-time University of Dayton students pursuing a baccalaureate degree. While all courses are taken through the University of Dayton, leadership laboratories and classes for junior and senior years are typically taught at Wright State University, the host site of the area Air Force ROTC detachment.

The Air Force ROTC program is designed to produce Air Force officers who will be successful leaders and managers. All officers will be placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The Air Force ROTC program is organized in two portions: the General Military Course (GMC), typically taken during freshman and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. At a minimum, officers will need to complete the POC portion of the program.

- The GMC is a no-obligation introduction to the Air Force. The course covers the development and history of air power and the organization of the contemporary United States Air Force.
- The POC curriculum covers communicative skills, Air Force management and leadership, American defense policy, and regional world studies. Air Force ROTC students have additional opportunities to participate in challenging and rewarding activities that include piloting a sail-plane, trips to air force bases, orientation flights, official military functions and ceremonies, and one on-one mentoring with an active duty Air Force officer.

This program is open to all majors. All Air Force ROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books, and fees, plus a $300 - $500 monthly stipend depending on your progress in the program. These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science, and physics. High school students should apply for a scholarship no later than December 1st of their senior year. Apply at www.afrotc.com (catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/airforceaerospacestudiesrotc/www.afrotc.com). In-college students will apply for scholarships through their Air Force ROTC instructor. If you are a freshman or sophomore seeking a challenge or wish to give Air Force ROTC a trial run, sign up for the Aerospace Studies 121 course.

All other students should contact:

The Department of Aerospace Studies
Wright State University
Dayton, Ohio 45435
Phone: 937-775-2730
Email: afrotc@wright.edu (catalog.udayton.edu/undergraduate/collegeofartsandsciences/programsofstudy/airforceaerospacestudiesrotc/www.afrotc.com)
Website: www.wright.edu/academics/prog/rotc/home.htm (http://www.wright.edu/academics/prog/rotc/home.htm)

or
Courses

AES 120. GMC-Leadership Lab. 0 Hours
GENERAL MILITARY COURSE (GMC), LEADERSHIP LABORATORY - Applied Air Force Reserve Officer Training Corps (AFROTC) training.
This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet led, cadre supervised Lab environment. Requires participation in two weekly physical training sessions. Taken concurrently with 100-level AES courses. (Pass/Fail).

AES 121. Found-US Air Force I. 1 Hour
FOUNDATIONS OF THE UNITED STATES AIR FORCE I - This is a survey course designed to introduce students to the United States Air Force and provide an overview of the basic characteristics, missions, and organization of the Air Force. Corequisite(s): AES 120.

AES 122. Found-US Air Force II. 1 Hour
FOUNDATIONS OF THE UNITED STATES AIR FORCE II - This is a continuation of AES 121. It is a survey course designed to introduce students to the United States Air Force and provide an overview of the basic characteristics, missions, and organization of the Air Force. Corequisite(s): AES 120.

AES 220. FTP-Leadership Lab. 0 Hours
FIELD TRAINING PREPARATION (FTP) LEADERSHIP LABORATORY - Applied Air Force Reserve Officer Training Corps (AFROTC) training.
This lab further develops skills and concepts introduced in the General Military Course Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of upcoming Field Training summer program. Training is cadet led where students will display their ability to apply Air Force concepts and procedures. Requires participation in two weekly physical training sessions. Taken concurrently with 200-level AES courses. (Pass/Fail).

AES 221. Evl-US AF Air&Sp II. 1 Hour
EVOLUTION OF USAF AIR AND SPACE POWER I - This course features topics on Air Force heritage and leaders; introduction to air and space power through examination of distinctive capabilities and functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air and space power and to motivate sophomore students to transition from AFROTC cadet to Air Force ROTC officer candidate. Corequisite(s): AES 220.

AES 222. Evolution of USAF. 1 Hour
EVOLUTION OF USAF AIR AND SPACE POWER II - This course is a continuation of AES 221 and features topics on Air Force heritage and leaders; introduction to air and space power through examination of distinctive capabilities and functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air and space power and to motivate sophomore students to transition from AFROTC cadet to Air Force ROTC officer candidate. Corequisite(s): AES 220.
AES 470. Extended POC Ldr Lab. 0 Hours
EXTENDED POC LEADERSHIP LABORATORY POC - Leadership Laboratory.

AES 491. Independent Study. 1 Hour
INDEPENDENT STUDY - Independent Study.

AES 493. Independent Study. 3 Hours
INDEPENDENT STUDY - Independent Study.

American Studies

• Bachelor of Arts, American Studies

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
Donald L. Pair (Office of the Dean), Interim Program Director

Bachelor of Arts with a Major in American Studies (AMS)

American Studies
AMS 300 American Cultures 3
AMS 301 Interps of Amer Cult 3
AMS 400 Interdisc Research 3

First Area Courses:
Select five courses from either group A, B, or C 15
Select supporting courses in the elected discipline 9

Second Area Courses:
Select three courses from one of the two remaining groups 9

Third Area Courses:
Select two courses from the remaining group 6

Groups:

Group A
ENG 305 Survey-American Lit
ENG 317 Contemporary Poetry 1
ENG 319 Contemporary Fiction 1
ENG 320 Contemporary Drama 1
ENG 325 Science Fiction
ENG 327 Studies-Populr Fictn
ENG 329 Short Story 1
ENG 331 Studies in Film 1
ENG 332 Studies-Lit & Film 1
ENG 335 African Amer Lit
ENG 337 Studies-Folklore
ENG 339 American Indian Lit
ENG 380 Studies in Lit 1
ENG 383 Tragic Dilemma 1
ENG 451 American Romanticism
ENG 453 Amer Realism&Natrlism

Group B
HST 342 Environ Hst Americas
HST 344 Hst-Sci.Tch&Mod Crp
HST 346 Hist of Aviation
HST 347 Sex,Race & Sicence
HST 351 Women Gender Am
HST 352 Hst of Amer Family
HST 355 American Urban Hist
HST 360 US Legl/Const Hst I
HST 361 US Legl/Const Hst II
HST 365 Amer Films as Hst
HST 369 Civil War & Recnstr
HST 370 Eco & Bus Hst-US
HST 372 Hst-Rel in US
HST 373 American Mil Hist
HST 374 Ireland & America
HST 375 US Foreign Relations
HST 376 Soc & Cult Hst of US
HST 377 Contempry Amer Hst
HST 378 Hst Globl Immgnts-US
HST 380 Native Amer History
HST 385 Atlantic World
HST 391 Amr Arch Hst&Prsrvtn
HST 398 Hs Biks-US 1526-1900
HST 399 Hst Biks-US s/1900
HST 490 Sem in Hstrgrphy
HST 495 Internship
HST 499 Topics in History 1
PHL 307 Philosophy and Women
PHL 310 Social Philosophy
PHL 311 Phi of Religion
PHL 314 Philosophy of Law
PHL 317 Ethics&Modern War
PHL 318 Family Ethics
PHL 320 Philosophy of Art
PHL 323 Phi & Literature

ENG 455 20th Centruy Amer Lit
ENG 468 Intro to Linguistics
ENG 490 Seminar 1
MUS 304 Hst of Amer Music
MUS 305 Africn Amer Sac Mus
MUS 306 History-Amer Jazz
MUS 307 Dev Amer Poplr Song
MUS 327 Music in Film
MUS 328 Hst-Amer Musical
MUS 404 20th Century Music 1
VAH 370 American Art
VAH 480 20th Century Art I
VAH 482 Hst-Photogrphy II
VAH 483 20th Century Art II
VAH 490 Special Problems 1
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<tr>
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<th>Credits</th>
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<td>PHL 331</td>
<td>Sci, Objtvy &amp; Values</td>
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<tr>
<td>PHL 332</td>
<td>Technology&amp;Values</td>
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<tr>
<td>PHL 340</td>
<td>Special Problems</td>
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<td>PHL 361</td>
<td>American Philosophy</td>
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<td>REL 326</td>
<td>Protestant Christty</td>
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<td>REL 327</td>
<td>US Religious Expr</td>
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<td>REL 328</td>
<td>US Cath Experience</td>
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<tr>
<td>REL 364</td>
<td>Current Moral Issues</td>
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<td>REL 367</td>
<td>Chr Ethics&amp;Hlth Care</td>
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<td>REL 372</td>
<td>Religion &amp; Film</td>
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<td>REL 373</td>
<td>Religion&amp;Literature</td>
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<td>REL 375</td>
<td>Religion &amp; Science</td>
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<td>REL 485</td>
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<td>ANT 315</td>
<td>Language and Culture</td>
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<td>ANT 335</td>
<td>Urban Anthropology</td>
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<td>ANT 449</td>
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<td>ECO 347</td>
<td>Intrmd MacroEco Anly</td>
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<td>ECO 435</td>
<td>Eco of Environmnt</td>
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<td>Econometrics</td>
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<td>Money and Banking</td>
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<td>ECO 445</td>
<td>Public Finance</td>
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<td>ECO 460</td>
<td>Eco Develop &amp; Growth</td>
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<tr>
<td>ECO 461</td>
<td>International Econ</td>
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<td>ECO 471</td>
<td>Labor Economics</td>
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<td>ECO 485</td>
<td>Urban&amp;Regional Econ</td>
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<td>POL 301</td>
<td>Amer Judicial Process</td>
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<td>POL 303</td>
<td>State &amp; Local Govt</td>
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<td>POL 310</td>
<td>Pol Prts, Cmns&amp;Eltns</td>
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<tr>
<td>POL 311</td>
<td>Pub Opin &amp; Pol Bhvr</td>
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<td>POL 313</td>
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<td>POL 314</td>
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<td>POL 316</td>
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<td>POL 335</td>
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<td>POL 413</td>
<td>Polts-Bureau&amp;Regln</td>
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<td>PSY 334</td>
<td>Industrial Psychology</td>
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<td>PSY 341</td>
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<tr>
<td>PSY 351</td>
<td>Child Psychology</td>
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<tr>
<td>PSY 361</td>
<td>Personality</td>
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<td>PSY 363</td>
<td>Abnormal Psychology</td>
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<td>PSY 443</td>
<td>Psychology of Women</td>
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<td>PSY 461</td>
<td>Curr Impl-Drug Depnd</td>
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<tr>
<td>PSY 462</td>
<td>Human Sexuality</td>
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<td>PSY 471</td>
<td>Hist of Psychology</td>
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<tr>
<td>SOC 321</td>
<td>Soc of Work&amp;Occuptns</td>
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<tr>
<td>SOC 328</td>
<td>Racial&amp;Eth Minorities</td>
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<tr>
<td>SOC 337</td>
<td>Political Sociology</td>
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<tr>
<td>SOC 339</td>
<td>Social Inequality</td>
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<tr>
<td>SOC 341</td>
<td>Self &amp; Society</td>
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<tr>
<td>SOC 343</td>
<td>Mass Comm-Mdrrn Socy</td>
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<tr>
<td>SOC 351</td>
<td>Urban Sociology</td>
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<tr>
<td>SOC 352</td>
<td>Community</td>
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<tr>
<td>SOC 435</td>
<td>Soc of Globalization</td>
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</table>

**Liberal Studies Curriculum**

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Communication Competencies</td>
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<tr>
<td>Creative and Performing Arts</td>
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<td>3</td>
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<tr>
<td>History</td>
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<td>L2 Proficiency (Proficiency in a language other than English)</td>
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<td>Literature</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<td>Natural Sciences</td>
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<tr>
<td>Philosophy and Religious Studies</td>
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<tr>
<td>Social Sciences</td>
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<td>Total Hours - general education courses/academic electives to total at least</td>
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</tbody>
</table>

1. This course can be counted only when the material is appropriate to American Studies. Consult program director.

**Courses**

**AMS 300. American Cultures. 3 Hours**

AMERICAN CULTURES - 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.).

**AMS 301. Interps of Amer Cult. 3 Hours**

INTERPRETATIONS OF AMERICAN CULTURE - Critical study of various interpretations of American culture through more than a hundred years.

**AMS 400. Interdisc Research. 3 Hours**

INTERDISCIPLINARY RESEARCH - Study of the principles of interdisciplinary scholarship; what can and probably cannot be accomplished by it; successful interdisciplinary accomplishments. Students will complete interdisciplinary projects.

**AMS 477. Honors Thesis. 3 Hours**

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 University Honors Program.
AMS 478. Honors Thesis. 3 Hours
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 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): Approved 477; approval of University Honors Program.

Arts Administration
The minor in Arts Administration provides an introductory background to students with an interest in the management of non-profit arts and community organizations. Eligible students are declared majors or minors in music, theatre, and visual arts, or majors in business. The minor offers two tracks depending on the student’s major. It provides Arts students with an introductory foundation in business and economics, and SBA students with further literature and practical study in the arts. Core courses explore special issues and challenges that the art community faces today. The minor integrates classroom study with real-world experiences with area arts organizations. The Arts Administration minor requires nineteen semester hours, including seven semester hours of core interdisciplinary courses.

Arts Administration Committee
Linda Snyder (Department of Music), Rebecca Wells (School of Business Administration)

Minor in Arts Administration (AAD)
Arts Administration - Track A (required for visual arts, music and theatre majors and minors)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAD 301</td>
<td>Intro to Arts Admin</td>
<td>3</td>
</tr>
<tr>
<td>AAD 498</td>
<td>Arts Admin Internship</td>
<td>1-3</td>
</tr>
<tr>
<td>ACC 200</td>
<td>Intro to Accounting</td>
<td>3</td>
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<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from:</td>
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<tr>
<td>FIN 301</td>
<td>Intro to Financial Mgt</td>
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</tr>
<tr>
<td>MGT 201</td>
<td>Legal Environmt-Bus</td>
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<tr>
<td>MKT 300</td>
<td>Survey of MKT</td>
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<tr>
<td>OPS 300</td>
<td>Intro-Oper&amp;Supply Mgt</td>
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<tr>
<td>Total Hours</td>
<td>16-18</td>
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Arts Administration - Track B (required for business majors)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AAD 301</td>
<td>Intro to Arts Admin</td>
<td>3</td>
</tr>
<tr>
<td>AAD 498</td>
<td>Arts Admin Internship</td>
<td>1-3</td>
</tr>
<tr>
<td>Select three courses from two areas:</td>
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<tr>
<td>Music 1</td>
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<td>MUS 201</td>
<td>Music in Concert</td>
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<td>MUS 202</td>
<td>Prof Dev Workshops</td>
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<tr>
<td>MUS 302</td>
<td>Mus Hist &amp; Lit II</td>
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<td>MUS 303</td>
<td>Intro World Music</td>
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<tr>
<td>Theatre/Dance</td>
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<td>THR 105</td>
<td>Intro to Theatre</td>
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<tr>
<td>THR 415</td>
<td>Hst of the Theatre I</td>
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<tr>
<td>THR 425</td>
<td>Hst of Theatre II</td>
<td></td>
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<tr>
<td>Total Hours</td>
<td>16-18</td>
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Courses
AAD 301. Intro to Arts Admin. 3 Hours
INTRODUCTION TO ARTS ADMINISTRATION - Interdisciplinary introduction to the fundamental principles and applications of managing a non-profit arts organization. Study of strategies and tools for effective arts management. Recommended for students with a background in the arts and/or business.

AAD 498. Arts Admin Internship. 1-3 Hours
ARTS ADMINISTRATION INTERNSHIP - Arts administration work experience in an approved organization. Student must be in good academic standing. Students are limited to a maximum of three semester hours. Prerequisite(s): AAD 301; UDI 371; permission of program advisor.

Visual Arts
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>VAH 101</td>
<td>Intro-Visual Arts</td>
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<tr>
<td>VAH 201</td>
<td>Survey of Art I</td>
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<tr>
<td>VAH 202</td>
<td>Survey of Art II</td>
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<td>VAH 203</td>
<td>Survey of Art III</td>
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Select courses from performance or creative arts: 3
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<td>MUS 195</td>
<td>Beg Guitar Class I</td>
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<tr>
<td>MUS 196</td>
<td>Group Piano I</td>
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<tr>
<td>MUS 295</td>
<td>Beg Guitar Class II</td>
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<td>MUS 296</td>
<td>Func Keybd Skls I</td>
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<tr>
<td>&amp; MUS 297</td>
<td>Func Keybd Skls II</td>
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<td>MUS 390</td>
<td>Ensembles</td>
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<td>MUS 399</td>
<td>Performance Studies</td>
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<td>MUS 491</td>
<td>University Orchestra</td>
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<td>Symphonic Wind Ens</td>
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<td>MUS 493</td>
<td>University Chorale</td>
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<td>THR 100</td>
<td>Theatre Lab</td>
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<td>THR 201</td>
<td>Basic Dance</td>
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<tr>
<td>THR 251</td>
<td>Beginning Tap Dance</td>
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<td>THR 261</td>
<td>Beginning Jazz Dance</td>
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<td>THR 271</td>
<td>Beginning Ballet</td>
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<tr>
<td>THR 305</td>
<td>Theatre Stagecraft</td>
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<td>THR 307</td>
<td>Theatre Lighting</td>
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<tr>
<td>THR 310</td>
<td>Acting I</td>
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<td>THR 312</td>
<td>Acting-Film &amp; TV</td>
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<td>THR 320</td>
<td>Stage Mvmt &amp; Voice</td>
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<td>THR 330</td>
<td>Concepts Scene Desgn</td>
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<td>VAD 215</td>
<td>Computr Appl-Desgn</td>
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<td>VAD 218</td>
<td>Computr Appl-Illust</td>
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<tr>
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<td>Design Processes I</td>
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<td>Foundation Drawing</td>
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<td>VAF 112</td>
<td>Foundation 2-D Desgn</td>
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<tr>
<td>VAP 101</td>
<td>Foundation Photography</td>
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Total Hours 16-18
1 Other courses may be selected with approval.
Biology

Majors:

- Bachelor of Science, Biology
- Bachelor of Science, Environmental Biology

Minor:
- Biology

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:

1. Environmental/ecological science
2. Basic biomedical science.

The former includes:
- Ecology
- Population biology
- Ecological physiology
- Environmental microbiology
- Community and restoration ecology
- Entomology and analysis of biological data
- Evolutionary biology
- Plant physiology
- Environmental biology in the narrow sense

The biomedical science course offerings include:
- Molecular biology
- Cell biology
- General and medical microbiology
- Immunology
- Genetics
- Mammalian physiology
- 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).

The department offers a research mentorship program for upper-level students majoring in biology. The program allows a student to work closely with both faculty and graduate students in laboratory and/or field research. Participation in the program is based on the recommendation of a member of the faculty. The mentorship program is designed to provide a significant advantage for those students who intend to enter a graduate program.

The department also offers a combined five-year Bachelor and Master of Science degree in Biology. This accelerated program is designed for students who display strong potential for research in biology. It provides a liberal arts education, a broad background in biology, the development of expertise in a biological subfield and a thorough introduction to research instrumentation and techniques. Graduates from the program are prepared for either direct entry into the job market or continuation toward the Ph.D. A detailed description of the five-year B.S.-M.S. program may be obtained from the departmental office.

A minor in biology consists of twenty semester hours.

Faculty

Jayne B. Robinson, Chairperson
Distinguished Service Professor: Noland
Professors Emeriti: Chantell, Geiger, Ramsey
Professors: Burky, Kearns, Robinson, Rowe, Tsonis, P. Williams
Associate Professors: Friese, Krane, Nielsen, D. Wright, S. Wright
Assistant Professors: Benbow, Hansen, Hong, Kango-Singh, McEwan, Singh, T. Williams
Lecturers: Collins, Dillon, Kavanaugh, Klcio, Nickell
Adjunct Faculty: Del Rio-Tsonis, Hussain, Joseph, Schlager

Bachelor of Science with a Major in Biology (bio)

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Select four electives, two with accompanying labs, from the group above. 5

Select one mathematics sequence from: 6

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Communication Competencies 3-9

General Electives 8-9

Humanities 5

Philosophy and Religious Studies 12

Social & Behavioral Sciences 6

Total Hours - general education courses/academic electives to total 120 at least

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.

3 One with accompanying laboratory. BIO 462 strongly recommended as one of two courses.

4 Qualifies as a laboratory elective for any category.

5 One of the following Non-BIO science courses may include: CHM 201,CHM 302,CHM 303,CHM 420,MTH 367,CPS 107,CPS 111,CPS 132,GEO 208,GEO 308,GEO 401,Other Non-BIO science courses may be included with the approval of the chairperson.

6 HST 340, HST 341 or HST 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.

Environmental Biology

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Courses

BIO 101. General Biology I. 3 Hours
GENERAL BIOLOGY I - Study of the more important biological processes and principles through analysis and synthesis, dealing primarily with the organizational aspects of living things. For the nonscience major.

BIO 101L. Gen Biology Lab. 1 Hour
GENERAL BIOLOGY LABORATORY I - Examination of biological concepts using basic biological techniques and stressing an investigational and experimental approach. One two-hour laboratory per week. Corequisite(s): BIO 101.

BIO 151. Concepts of Bio I. 3 Hours
CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY - Study of the molecular and cellular organization of organisms. Topics also include development and genetics. Core biology course.

BIO 151L. Concepts-Bio Lab I. 1 Hour
CONCEPTS OF BIOLOGY LABORATORY I: CELL AND MOLECULAR BIOLOGY - An introduction to biological laboratory procedures and instrumentation through a series of observational and experimental exercises at the cellular and molecular level. Core biology course. Corequisite(s): BIO 151.

BIO 152. Concepts of Bio II. 3 Hours
CONCEPTS OF BIOLOGY II: EVOLUTION AND ECOLOGY - Study of evolution and ecology. Topics include phylogeny, systematics, and conservation. Core biology course. BIO 151 recommended.

BIO 152L. Concepts-Bio Lab II. 1 Hour
CONCEPTS OF BIOLOGY LABORATORY II: EVOLUTION AND ECOLOGY - An introduction to biological laboratory exercises at the organismal and the system level through a series of observational and experimental exercises in evolution, ecology and behavioral ecology. Core biology course. Corequisite(s): BIO 152.

BIO 299. Biology Seminar. 1 Hour
BIOLOGY SEMINAR - Introduction to biological journals and abstracting materials. Practice in reviewing, abstracting, and presenting biological information, and career development. Core biology course. Biology and environmental biology majors only. Prerequisite(s): BIO 152.

BIO 301. Evolution. 3 Hours
EVOLUTION - Theory and evidence of organic evolution, with emphasis on microevolutionary change and population genetics. Prerequisite(s): BIO 152.

BIO 309. Comp Anat Vertebrts. 3 Hours
COMPARATIVE ANATOMY OF THE VERTEBRATES - Study of changes that have occurred in the vertebrate body with the passage of time, and analysis of their significance. Prerequisite(s): BIO 152.

BIO 309L. Comp Anatomy Lab. 1 Hour
COMPARATIVE ANATOMY LABORATORY - Dissection and study of the anatomical structure of representative vertebrate animals. One three-hour laboratory per week. Corequisite(s): BIO 309.

BIO 310. Ecology. 3 Hours
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. Core biology course. Prerequisite(s): BIO 152.
BIO 310L. Ecology Lab. 1 Hour
ECOLOGY LABORATORY - Measurement of population, community, and environmental variables in terrestrial and aquatic systems. The lab is field-based using local ecological resources. One three-hour laboratory per week and weekend field trips. Corequisite(s): BIO 310.

BIO 311. Intro Entomology. 3 Hours
INTRODUCTORY ENTOMOLOGY - Classification, physiology, ecology, and impact of insects on society. Prerequisite(s): BIO 152.

BIO 312. General Genetics. 3 Hours
GENERAL GENETICS - Study of the principles of variation and heredity covering both Mendelian and molecular genetics. Core biology course. Prerequisite(s): BIO 152.

BIO 312L. Genetics Lab. 1 Hour
GENETICS LABORATORY - Exploration of heredity using molecular genetic methods. One three-hour laboratory per week. Corequisite(s): BIO 312.

BIO 314. Plant Biology. 3 Hours
PLANT BIOLOGY - Consideration of structure, function, reproduction, and inheritance as applicable in the plant patterns of life. Emphasis on the vascular plants. Prerequisite(s): BIO 152.

BIO 314L. Plant Bio Lab. 1 Hour
PLANT BIOLOGY LABORATORY - Emphasis on generalized structure and function of plants. One three-hour laboratory per week. Corequisite(s): BIO 314.

BIO 320. Marine Biology. 2 Hours
MARINE BIOLOGY - Introduction to the diversity of marine life including the physical-chemical environment. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 320L.

BIO 320L. Marine Biology Lab. 2 Hours
MARINE BIOLOGY LABORATORY - Examination of marine organisms and processes. Laboratory work conducted on UD campus and at off-campus field sites in the southern United States or Hawaii. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 320.

BIO 330. Animal Behavior. 3 Hours
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): BIO 152.

BIO 330L. Animal Behvr Lab. 1 Hour
ANIMAL BEHAVIOR LABORATORY - Analysis of animal behavior using various animal models. One three-hour laboratory per week and occasional Saturday field trips. Corequisite(s): BIO 330.

BIO 340. Ctr Biodiv&Res Mgt. 3 Hours
CULTURE, BIODIVERSITY AND RESOURCES MANAGEMENT - Field lecture course addressing cultural impacts on biodiversity and conciliatory demands for resource management to preserve the integrity of unique global environments. An experiential study of culture, regional geological morphology and weather-patterns, economic development, the freshwater-marine continuum, resource utilization, environmental law and management on conservation of unique biological habitats and organisms. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 340L.

BIO 340L. Cltr Biodiv&Res Lab. 1 Hour
CULTURE, BIODIVERSITY AND RESOURCES MANAGEMENT LABORATORY - Lab field course on culture, biodiversity and balanced resource management to preserve integrity of unique global environments and compromises with economic development. Assessment of biodiversity in diverse biomes (e.g. elevational and rainforest-desert gradients, watersheds, coral reef systems) will be assessed with experimental design, data collection and analysis. May fulfill only one laboratory requirement for the Biology major. Prerequisite(s): Permission of instructor. Corequisite(s): BIO 340.

BIO 350. Applied Microbiology. 3 Hours
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. No science credit for biology majors. Prerequisite(s): BIO 152; CHM 314.

BIO 350L. Applied Microbio Lab. 1 Hour
APPLIED MICROBIOLOGY LABORATORY - An introductory laboratory to acquaint students with basic microbiology laboratory techniques as applied to environmental pollution and industrial fermentations. One three-hour laboratory per week. Corequisite(s): BIO 350.

BIO 359. Sustainable Biosphere. 3 Hours
SUSTAINABILITY AND THE BIOSPHERE - Study of the principles of sustainability. All areas of sustainability will be covered with emphasis on ecological facets of sustainability. Discussion of loss of habitat and biodiversity in the context of sustaining natural resources for future generations. Prerequisite(s): BIO 152 or SCI 230.

BIO 360. Island Environ Bio. 3 Hours
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 Environ Lab. 1-2 Hours
ISLAND ENVIRONMENTAL BIOLOGY LABORATORY - 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. Conservtn Biology. 3 Hours
CONSERVATION BIOLOGY - An ecosystem approach to the study of and threat to local, regional, and global biodiversity. Application of ecological principles of conservation of species and habitats. Prerequisite(s): BIO 152.

BIO 395. Global Envr Biology. 3 Hours
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): BIO 101 or SCI 190.
BIO 402. Vertebrate Zoology. 3 Hours
VERTEBRATE ZOOLOGY - The morphology, physiology, ecology, and distribution of representative vertebrate groups. Prerequisite(s): BIO 310 or BIO 312.

BIO 402L. Vertebrate Zoology Lab. 1 Hour
VERTEBRATE ZOOLOGY LABORATORY - Laboratory focused on the diversity, systematics and ecology of vertebrates. One three-hour laboratory per week. Corequisite(s): BIO 402.

BIO 403. Physiology I. 3 Hours
PHYSIOLOGY I - Physical-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 152; CHM 314.

BIO 403L. Physiology Lab. 1 Hour
PHYSIOLOGY LABORATORY I - Systematic approach to the acquisition and interpretation of information about the physiology of living systems. One three-hour laboratory per week. Corequisite(s): BIO 403.

BIO 404. Physiology II. 3 Hours
PHYSIOLOGY II - Integrated systems based examination of physiological processes in humans with a special emphasis on molecular mechanisms of pathophysiological conditions in humans and experimental animal systems. Prerequisite(s): BIO 403.

BIO 407. Plant Div & Ecol. 3 Hours
PLANT DIVERSITY AND ECOLOGY - Lecture course addressing plant diversity and ecology. Course includes an overview of plant systematics and aspects of plant anatomy, population ecology, community ecology, ecosystem ecology, and global ecology. Prerequisite(s): BIO 310.

BIO 407L. Plant Div & Ecol Lab. 1 Hour
PLANT DIVERSITY AND ECOLOGY LABORATORY - Field laboratory course addressing plant diversity and ecology. Includes a series of field labs focused on plant identification, followed by labs focused on quantitatively assessing plants, plant communities, and ecosystems. Labs will take place in a variety of natural areas. Corequisite(s): BIO 407.

BIO 409. Ecol Restoration. 3 Hours
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): BIO 310.

BIO 409L. Ecol Restoration Lab. 1 Hour
ECOLOGICAL RESTORATION LABORATORY - Practical applications of the principles of ecological restoration to a variety of ecosystems. One three-hour laboratory per week. Corequisite(s): BIO 409.

BIO 411. General Microbiology. 3 Hours
GENERAL MICROBIOLOGY - Introductory course stressing the physiology, cultivation, and classification of microbial organisms; their role in medicine, agriculture, and industry. Prerequisite(s): BIO 152; CHM 313.

BIO 411L. Gen Microbiology Lab. 1 Hour
GENERAL MICROBIOLOGY LABORATORY - Lab exercises focusing on the basic techniques involved in the isolation and identification of bacteria, including assessment of biochemical activities, growth characteristics of bacteria, and the impact of the environment on microbial growth. One three-hour laboratory per week. Corequisite(s): BIO 411.

BIO 412. Genetics Human Dis. 3 Hours
GENETICS HUMAN DISEASES - Study of the molecular genetics of inherited human diseases using a systems approach. Survey of inherited diseases linked to major organs and organ systems. Prerequisite(s): BIO 312; CHM 313.

BIO 415. Neurobiology. 3 Hours
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 152; CHM 124.

BIO 420. Seminar. 1 Hour
SEMINAR - Practice in development, presentation, and discussion of papers dealing with biological research problems, and career development. Core biology course. Prerequisite(s): BIO 299, BIO 310, BIO 312.

BIO 421. Biological Problems. 1-2 Hours
BIOLOGICAL PROBLEMS - Laboratory research problems. Topics arranged with faculty advisors. Prerequisite(s): (BIO 310 or BIO 312); Permission of department chairperson.

BIO 422. Biological Problems. 1-2 Hours
BIOLOGICAL PROBLEMS - Library research problems. Topics arranged with faculty advisors. Prerequisite(s): (BIO 310 or BIO 312); Permission of department chairperson.

BIO 425. Paristology. 3 Hours
PARASITOLOGY - Introduction to the morphology, life history, and clinical significance of parasites and other symbionts. Prerequisite(s): BIO 310 or BIO 312.

BIO 425L. Paristology Lab. 1 Hour
PARASITOLOGY LABORATORY - Recognition of common human parasites. Study of both living and preserved forms. One three-hour laboratory per week. Corequisite(s): BIO 425.

BIO 427. Immunology. 3 Hours
IMMUNOLOGY - Discussions of antigens, antibodies, antigenicity, immunogenicity, and antigen-antibody reactions including hypersensitivity, immune tolerance, and transplants. Prerequisite(s): (BIO 403 or BIO 411 or BIO 440 or BIO 442) or CHM 420.

BIO 435. Microbial Ecology. 3 Hours
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 314.

BIO 435L. Microbial Eclogy Lab. 1 Hour
MICROBIAL ECOLOGY LABORATORY - Examination of the methods of isolation and enumeration of microorganisms and techniques for determining their activities in the field and laboratory. One three-hour laboratory per week. Corequisite(s): BIO 435.

BIO 439. Analysis Biol Data. 3 Hours
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 152.
BIO 440. Cell Biology. 3 Hours
CELL BIOLOGY - Study of the function, structure, composition, heredity, and growth of cells. Analysis of cell concepts in biochemical terms. Prerequisite(s): BIO 152; CHM 314.

BIO 440L. Cell Bio Lab. 1 Hour
CELL BIOLOGY LABORATORY - Experimental approaches to explore modern concepts in cell structure, function, and biology. One three-hour laboratory per week. Corequisite(s): BIO 440.

BIO 441. Envirn Plant Bio. 3 Hours
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 water stress. Prerequisite(s): BIO 310 or BIO 312.

BIO 442. Developmental Bio. 3 Hours
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 152; CHM 314.

BIO 442L. Devlpmnt Bio Lab. 1 Hour
DEVELOPMENTAL BIOLOGY LABORATORY - Exploration of the development of key model organisms from the morphological and molecular perspectives with an emphasis on basic developmental laboratory techniques. One three-hour laboratory per week. Corequisite(s): BIO 442.

BIO 444. Plant Diversity. 3 Hours
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. Prerequisite(s): BIO 310.

BIO 444L. Plant Diversity Lab. 1 Hour
PLANT DIVERSITY LABORATORY - Laboratory studies of the plant groups, including life cycles and evolutionary, physiological, and ecological adaptations. One three-hour laboratory per week. Corequisite(s): BIO 444.

BIO 445. Evolution&Devlpmnt. 3 Hours
EVOLUTION AND DEVELOPMENT - Molecular and population genetic examination of the evolution of animal form. Topics include comparative developmental biology, population genetics, and molecular evolution. Prerequisite(s): BIO 312.

BIO 450. Comp Animal Physiol. 3 Hours
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. Prerequisite(s): (BIO 310 or BIO 312); CHM 124.

BIO 450L. Comp Animal Phys Lab. 1 Hour
COMPARATIVE ANIMAL PHYSIOLOGY LABORATORY - Examination of physiological responses to the physical environment. Variations of the physical environment are examined in the field. Study of animals under controlled laboratory conditions with experimental design, data collection and analysis to assess physiological adaptations. One three-hour laboratory or field trip per week. Corequisite(s): BIO 450.

BIO 452. Bio Rivers & Lakes. 3 Hours
BIOLOGY OF RIVERS AND LAKES - The biological interrelationships of organisms in rivers, streams, lakes and ponds including biodiversity, ecological/evolutionary adaptations and structure of aquatic ecosystems. Prerequisite(s): BIO 310.

BIO 452L. Bio River&Lake Lab. 1 Hour
BIOLOGY OF RIVERS AND LAKES LABORATORY - Laboratory and field exercises emphasizing the biological, chemical and physical attributes of freshwater ecological systems. One three-hour laboratory or field trip per week. Corequisite(s): BIO 452.

BIO 459. Envirnmntl Ecology. 3 Hours
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 310.

BIO 459L. Envirnmntl Eco Lab. 1 Hour
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. One three-hour laboratory per week. Corequisite(s): BIO 459.

BIO 460. Intro Bioinformatics. 3 Hours
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.

BIO 461. Invertebrate Zoology. 3 Hours
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 310 or BIO 312.

BIO 461L. Invertbrt Zoology Lab. 1 Hour
INVERTEBRATE ZOOLOGY LABORATORY - Examination of the structure and function of the major invertebrate phyla. Survey of representative animals with an emphasis on observational skills for analysis of the structural adaptations of live animals. One three-hour laboratory per week. Corequisite(s): BIO 461.

BIO 462. Molecular Biology. 3 Hours
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 465. Disease Ecology. 3 Hours
DISEASE ECOLOGY - Examination of ecological factors affecting the emergence and dynamics of infectious diseases of humans and wildlife. History and overview of how diseases are often a product of populations, communities, ecosystems, and global systems. Includes an introduction to epidemiology and current molecular and geographic information system techniques used to study these integrated systems. Prerequisite(s): (BIO 310, BIO 411) or permission of department chairperson or instructor.
BIO 466. Bio-Infectious Dis. 3 Hours
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 470. Cancer Biology. 3 Hours
CANCER BIOLOGY - Study of growth patterns and causes of cancer at the cellular and molecular levels. Discussion of the hereditary and environmental factors that contribute to the development of the disease in cancer patients. Description of the research being conducted to understand and cure the disease. Prerequisite(s): BIO 403 or BIO 440.

BIO 475. Human Anatomy. 3 Hours
HUMAN ANATOMY - Study of the fundamental principles of human gross anatomy with emphasis on all organ systems. Prerequisite(s): BIO 152; CHM 314.

BIO 475L. Human Anatomy Lab. 1 Hour
HUMAN ANATOMY LABORATORY - Study of human gross anatomy emphasizing all organs systems using computer-assisted dissection, anatomical human models and occasional dissection of nonhuman cadaver organs. One three-hour laboratory per week. Corequisite(s): BIO 475.

BIO 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

BIO 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

BIO 479L. Envir Instr Lab. 2 Hours
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. One five-hour laboratory or field trip per week. Prerequisite(s): BIO 310; GEO 116.

BIO 480. Prin of Microscopy. 3 Hours
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 152.

BIO 480L. Microscopy Lab. 1 Hour
PRINCIPLES OF MICROSCOPY LABORATORY - Application and practice of light and electron microscopy. One three-hour laboratory per week. Corequisite(s): BIO 480.

BIO 489. Mycology. 3 Hours
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): BIO 152.

BIO 496. Special Topics in BIO. 1-3 Hours
SPECIAL TOPICS IN BIOLOGY - Lecture course addressing advanced topics in biology. Topics are variable depending on faculty teaching the course and the course aims. Students should consult the class schedule. May be repeated. Prerequisite(s): BIO 151, BIO 152.

BIO 499. Env Bio Internship. 3 Hours
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 six semester hours. No science credit for biology majors. Prerequisite(s): Permission of Environmental Biology Program Coordinator.

Chemistry

Majors:
- Bachelor of Arts, Chemistry
- Bachelor of Science, Medicinal-Pharmaceutical Chemistry
- Bachelor of Science, Biochemistry
- Bachelor of Science, Chemistry

Minor:
- Chemistry

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 three to four 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 six 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.

The B.S. program in medicinal-pharmaceutical chemistry is designed to serve students who desire a more focused preparation in the analysis and synthesis of compounds of pharmacological significance. The program will also serve as a solid foundational curriculum for further studies in medicine, pharmacy or forensic chemistry. The thesis and research requirements for the degree are the same as those of the B.S. degree in chemistry, but will ordinarily involve a research experience in synthetic or analytical chemistry.

A minor in chemistry consists of twenty semester hours.

Faculty
Mark B. Masthay, Chairperson
Professors Emeriti: Fratini, Knachel, Singer
Professors: Keil, Morrow
Associate Professors: Benin, Church, Johnson, Masthay, S. Swavey
Assistant Professors: Crosson, Lopper, Mammana
Visiting Assistant Professor: Turner
Lecturer: Trick
Lab Instructors: Eckerle, Hils, Piepgrass, R. Swavey

Bachelor of Arts with a major in Chemistry (chm)

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Bachelor of Science in Medicinal-Pharmaceutical Chemistry (mcm)

Medicinal-Pharmaceutical Chemistry 1,2

Year 1

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Year 3

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Year 4

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Bachelor of Science with a major in Biochemistry (bcm)

### Chemistry

<table>
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<tbody>
<tr>
<td>1</td>
<td>CHM 123 &amp; 123L</td>
<td>General Chemistry and Gen Chemistry Lab</td>
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<td>2</td>
<td>CHM 124 &amp; 124L</td>
<td>General Chemistry and Gen Chemistry Lab</td>
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<td>3</td>
<td>CHM 313 &amp; 313L</td>
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### Biology

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<td>BIO 152 &amp; 152L</td>
<td>Concepts of Bio II and Concepts-Bio Lab II</td>
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<td>BIO 314</td>
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<td>MTH 168</td>
<td>Anly Geom &amp; Calc I</td>
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<td>MTH 169</td>
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### Supporting Science Requirements

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<td>&amp; 151L</td>
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<td>BIO 152</td>
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<td>&amp; MTH 149</td>
<td>Introductory Calc II</td>
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<td>PHY 201</td>
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### Breadth Requirements

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<td>Communication Competencies</td>
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<td>History</td>
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<tr>
<td>Philosophy and Religious Studies</td>
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<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
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</tbody>
</table>

Total Hours - general education courses/academic electives to total 120 at least

1. Consult General Requirements for all Bachelor of Science programs and Chapter V for General Education requirements.
2. Advanced placement is permitted.
3. Substitution of more advanced courses is possible upon consultation with the Department of Chemistry chairperson.
4. Biochemistry courses CHM 451 and CHM 452 may be substituted, with CHM 452 counting as a general elective.
5. Chemistry graduate courses or advanced electives from other departments may be selected with the permission of the Department of Chemistry chairperson.
6. If composition requirement is waived, the student should select an English elective. Advanced writing courses are recommended.
BIO 466 | Bio-Infectious Dis  
CHM 404 | Topics-Physical Chm  
CHM 412 | Intermed Organic Chm  
CHM 415 | Analytical Chemistry & 415L and Analytical Chem Lab  
CHM 417 | Inorganic Chemistry  
CHM 418L | Inorganic Chem Lab  
CHM 426 | Biosynthetic Org Chm  
CHM 427 | Medicinal Chemistry  
CHM 428L | Biochemistry Lab  
CHM 477 | Honors Thesis  
CHM 478 | Honors Thesis  
CHM 499 | Research & Thesis  

| Communication Competencies | 3-9  
| Foreign Language | 6-8  
| Humanities | 9  
| Philosophy and Religious Studies | 12  
| Social and Behavioral Sciences | 6  
| Total Hours - general education courses/academic electives to total at least | 120  

1 Advanced placement is permitted.

**Bachelor of Science with a major in Chemistry (chm)**

**Chemistry**  

| Year 1  
| CHM 123 & 123L | General Chemistry and Gen Chemistry Lab | 4  
| CHM 124 & 124L | General Chemistry and Gen Chemistry Lab | 4  

| Year 2  
| CHM 201 & 201L | Quantitative Anal and Quant Analysis Lab | 4  
| CHM 313 & 313L | Organic Chemistry and Organic Chemistry Lab | 4  
| CHM 314 & 314L | Organic Chemistry and Organic Chem Lab | 4  

| Year 3  
| CHM 303 & 303L | Physical Chemistry and Physical Chem Lab | 4  
| CHM 304 & 304L | Physical Chemistry and Physical Chem Lab | 4  
| CHM 317 | Spectro Idn-Org Cmpd | 1  
| CHM 417 | Inorganic Chemistry | 3  
| CHM 418L | Inorganic Chem Lab | 1  
| CHM 495 | Intro-Resrch Seminar | 0  

| Year 4  
| CHM 415 & 415L | Analytical Chemistry and Analytical Chem Lab | 4  
| CHM 420 | Biochemistry | 3  
| or CHM 451 & CHM 452 | Gen Biochemistry I and Gen Biochemistry II |  
| CHM 496 | Prof Practice Seminr | 0  
| CHM 497 | Research Seminar | 0  
| CHM 498 | Research & Thesis | 3  

Select two CHM electives from:  

| CHM 404 | Topics-Physical Chm  
| CHM 412 | Intermed Organic Chm  
| CHM 426 | Biosynthetic Org Chm  
| CHM 427 | Medicinal Chemistry  
| CHM 462L | Biochemistry Lab  
| CHM 477 | Honors Thesis  
| CHM 478 | Honors Thesis  
| CHM 499 | Research & Thesis  

**Breadth Requirements**  

| ASI 150 | Intr to the Univ Exp | 1  
| PHY 206 | Gen Physics I Mech | 3  
| PHY 207 | Gen Phy II Ele & Mag | 3  
| PHY 208 | Gen Phy III Mec Wavs | 3  
| PHY 210L | Gen Physics Lab I | 1  
| PHY 211L | Gen Physics Lab II | 1  

Mathematics, Computer Sciences  

| CPS 132 | Progrmmng-Engr & Sci |  
| MTH 168 | Anly Geom & Calc I |  
| MTH 169 | Anly Geom & Calc II |  
| MTH 218 | Anly Geom & Calc III |  

| Communication Competencies | 3-9  
| Foreign Language | 6-8  
| Humanities | 9  
| Philosophy and Religious Studies | 12  
| Social and Behavioral Sciences | 6  
| Total Hours - 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 | General Chemistry and Gen Chemistry Lab | 4  
| CHM 124 & 124L | General Chemistry and Gen Chemistry Lab | 4  
| CHM 302 | Physical Chemistry or CHM 303 | Physical Chemistry | 3  

Select three CHM courses (300/400 level)  

1 In consultation with the chairperson.

**Courses**

**CHM 115. College Prep Chm. 3 Hours**  
COLLEGE PREPARATORY CHEMISTRY - One-term course for students desiring to enter a science or engineering program but whose background is insufficient for CHM 123 and CHM 124. Unacceptable for credit toward chemistry requirements in any chemistry program.
CHM 201L. College Prep Chm Lab. 1 Hour
COLLEGE PREPARATORY CHEMISTRY LABORATORY - Course to accompany CHM 115L or to be elected by students in CHM 200 who lack previous chemistry laboratory experience. One three-hour laboratory each week.

CHM 123. General Chemistry. 3 Hours
GENERAL CHEMISTRY - Comprehensive treatment of the fundamentals of general chemistry. Prerequisite(s): One year of high school chemistry or equivalent.

CHM 123L. Gen Chemistry Lab. 1 Hour
GENERAL CHEMISTRY LABORATORY - Laboratory course to complement CHM 123. One three-hour laboratory session each week. Corequisite(s): CHM 123.

CHM 124. General Chemistry. 3 Hours
GENERAL CHEMISTRY - Comprehensive treatment of the fundamentals of general chemistry. Prerequisite(s): CHM 123.

CHM 124L. Gen Chemistry Lab. 1 Hour
GENERAL CHEMISTRY LABORATORY - Laboratory course to complement CHM 124. One three-hour laboratory session each week. Prerequisite(s): CHM 123L Corequisite(s): CHM 124.

CHM 200. Chemistry & Society. 3 Hours
CHEMISTRY AND SOCIETY - 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): One year of high school chemistry or equivalent.

CHM 201. Quantitative Anal. 3 Hours
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, CHM 124L.

CHM 201L. Quant Analysis Lab. 1 Hour
QUANTITATIVE ANALYSIS LABORATORY - Course to accompany CHM 201. One three-hour laboratory period each week.

CHM 234. Energy Resources. 3 Hours
ENERGY RESOURCES - The chemical and geological aspects of formation, production, and benefits/costs (including environmental impacts) of energy derived from fossil fuels (coal and hydrocarbons), biofuels (e.g., ethanol production), radioactive materials (nuclear power), and renewable sources (e.g., geothermal, hydro, wind, and solar power). Prerequisite(s): CHM 123, CHM 124. Corequisite(s): GEO 208.

CHM 302. Physical Chemistry. 3 Hours
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, preental, and biology majors. Prerequisite(s): CHM 124.

CHM 302L. Physical Chem Lab. 1 Hour
PHYSICAL CHEMISTRY LABORATORY - Course to accompany CHM 302. One three-hour laboratory each week. Prerequisite(s): CHM 201, CHM 201L. Corequisite(s): CHM 302.
CHM 341. Environmental Chem. 3 Hours
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. Environmentl Chm Lab. 1 Hour
ENVIRONMENTAL CHEMISTRY LABORATORY - Laboratory course to accompany CHM 341. Corequisite(s): CHM 341.

CHM 404. Topics-Physical Chm. 3 Hours
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 CHM 303.

CHM 412. Intermed Organic Chm. 3 Hours
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 CHM 303.

CHM 415. Analytical Chemistry. 2 Hours
ANALYTICAL CHEMISTRY - Chemical analysis based on modern instrumentation. Chromatographic, electrochemical, and spectroscopic methods. Prerequisite(s): CHM 201, CHM 201L; (CHM 302 or CHM 304).

CHM 415L. Analytical Chem Lab. 2 Hours
ANALYTICAL CHEMISTRY LABORATORY - Course to accompany CHM 415. Two three-hour laboratory sessions each week. Prerequisite(s): CHM 201L; CHM 302 or equivalent.

CHM 417. Inorganic Chemistry. 3 Hours
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 CHM 304.

CHM 418L. Inorganic Chem Lab. 1 Hour
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, CHM 314L. Corequisite(s): CHM 417.

CHM 420. Biochemistry. 3 Hours

CHM 426. Biosynthetic Org Chm. 3 Hours
BIOSYNTHETIC ORGANIC CHEMISTRY - Mechanistic fundamentals of the biosynthesis and transformation of organic natural products, with special emphasis on medicinal compounds, toxins, pheromones and other secondary metabolite structures. Prerequisite(s): (CHM 314, CHM 314L) or equivalent.

CHM 427. Medicinal Chemistry. 3 Hours
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 CHM 451).

CHM 450. Adv Organic Synthesis. 3 Hours
ADVANCED ORGANIC SYNTHESIS - Fundamentals of synthesis and transformations of organic compounds, with emphasis on mechanisms; pericyclic reactions; small and medium ring synthesis; chemoselectivity, regioselectivity, stereoselectivity, retrosynthesis, functional group transformations, carbon-carbon bond forming reactions, oxidations, reductions and protecting groups. Prerequisite: (CHM 314, CHM 314L) or equivalent.

CHM 451. Gen Biochemistry I. 3 Hours
GENERAL BIOCHEMISTRY I - 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: CHM 201, CHM 314.

CHM 452. Gen Biochemistry II. 3 Hours
GENERAL BIOCHEMISTRY II - 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 454. Rational Drug Design. 3 Hours
RATIONAL DRUG DESIGN - Introduction to drug target selection, lead compound discovery, and application of structure-activity relationships and computational chemistry towards refinement and optimization of lead compounds and their derivatives. Use of molecular graphics software and publicly available macromolecular structure databases will provide the foundation for evaluating macromolecular models of drug targets and allow a hands-on exploration of the structure/function relationships of proteins that have been successful targets of rational drug design. Prerequisite(s): (CHM 420 or CHM 452) or equivalent.

CHM 462L. Biochemistry Lab. 1 Hour
BIOCHEMISTRY LABORATORY - Laboratory course to accompany biochemistry lecture courses. Spectrophotometry, pH and dissociation, enzymologic methodology and analytical techniques, chromatographic techniques. Corequisite(s): CHM 420 or CHM 451.

CHM 463L. Bioanalytical Chem Lab. 1 Hour
BIOANALYTICAL CHEMISTRY LABORATORY - Introduction to analytical methods in current use in biochemistry. Course will focus on separations and spectroscopic methods for the analysis of biomolecules. Prerequisite(s): CHM 201, CHM 201L, CHM 302.
CHM 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CHM 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

CHM 490L. Scientific Glassblowing. 1 Hour
SCIENTIFIC GLASSBLOWING - 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 three-hour laboratory each week. Grading Option Two. Prerequisite(s): Permission of department chairperson.

CHM 495. Intro-Resrch Seminar. 0 Hours
INTRODUCTION TO RESEARCH SEMINAR - 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 two.

CHM 496. Prof Practice Seminr. 0 Hours
PROFESSIONAL PRACTICES SEMINAR - 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 Hours
RESEARCH SEMINAR 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 & Thesis. 3 Hours
RESEARCH AND THESIS - All students in the B.S. programs including co-op students are required to enroll for a minimum of three semester hours in a research course (CHM 498). Students may take additional research semester hours (CHM 499) if the work extends for more than two 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 & Thesis. 1-3 Hours
RESEARCH AND THESIS - All students in the B.S. programs including co-op students are required to enroll for a minimum of three semester hours in a research course (CHM 498). Students may take additional research semester hours (CHM 499) if the work extends for more than two 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.

Communication
Bachelor of Arts, Communication
Concentrations:
• Communication Management
• Communication Studies
• Electronic Media
• Journalism
• Public Relations
• Theatre

Minors:
• Communication
• Political Journalism

The course requirement for communication majors is thirty-nine 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
Jonathan A. Hess, Chairperson
Professors Emeriti: Blatt, Gilvary, Harwood, Lain, Morlan, Wolff
Professors: Cusella, Hess, Robinson, Skill, Thompson
Associate Professors: Anderson, Griffin, Scantlin, Wallace, Watters, Yoder
Assistant Professors: Dunlevy, Han, Langhorne, Taylor, Valenzano, Yang
Media Executive in Residence: Walters
Lecturers: Angel, Beran, Billman, Flynn, Henson, Oh, Smith

Bachelor of Arts with a major in Communication-Communication Management Concentration (cmt)

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<td>Group Dec-Making</td>
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<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
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<tr>
<td>CMM 113</td>
<td>Interviewing</td>
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<td>CMM 201</td>
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<td>CMM 202</td>
<td>Foun-Com Thr&amp;Rrch</td>
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<td>CMM 320</td>
<td>Interpersal Commnctn</td>
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<td>Small Group Commnctn</td>
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<td>CMM 330</td>
<td>Media Writing</td>
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Bachelor of Arts with a major in Communication-Communication Studies Concentration (CSS)

Communication Studies ¹

CMM 110  Group Dec-Making 1

Bachelor of Arts with a major in Communication-Electronic Media Concentration (RTV)

Electronic Media ¹

CMM 110  Group Dec-Making 1
CMM 111  Inform Public Sp 1

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 hour requirement.

² Dance courses in the theatre program: THR 201, THR 251, THR 261, THR 271, THR 301, THR 351, THR 361, THR 371, do not count toward the thirty-nine semester hour requirement.

³ Twelve semester hours from one of the following: (at least six semester hours at the 300/400 level)
   • Anthropology
   • Business Administration
   • Criminal Justice
   • Economics
   • Education
   • Management
   • Marketing
   • Political Science
   • Psychology
   • Social Work
   • Sociology
   • Visual Arts
   • Interdisciplinary Studies.

³ Select three courses from CMM or THR ²

Social Science/Professional Studies in a single academic discipline ³ 12

Liberal Studies Curriculum

ASI 150  Intr to the Univ Exp 1
ENG 100 & ENG 200  Writing Seminar I and Writing Seminar II 6
or ENG 200H  Writing Seminar II 3
Creative and Performing Arts 3
History 6
L2 Proficiency (Proficiency in a language other than English) 0-11
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences 12
Total Hours - general education courses/academic electives to total 124 at least

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 397, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hour requirement.

² Approved program of study by advisor and department chair must be submitted prior to completion of eighteen semester hours.

³ Dance courses in the theatre program: THR 201, THR 251, THR 261, THR 271, THR 301, THR 351, THR 361, THR 371 do not count toward the thirty-nine semester hour requirement.

⁴ Twelve semester hours from one of the following: (at least six semester hours at the 300/400 level)
   • Anthropology
   • Business Administration
   • Criminal Justice
   • Economics
   • Education
   • Management
   • Marketing
   • Political Science
   • Psychology
   • Social Work
   • Sociology
   • Visual Arts
   • Interdisciplinary Studies.
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<td>CMM 111</td>
<td>Inform Public Sp</td>
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<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
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<td>Foun-Com Thr&amp;Rsrch</td>
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<td>CMM 397</td>
<td>Communucatn Practicum</td>
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Select one course from:

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<tr>
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<tbody>
<tr>
<td>CMM 341</td>
<td>Audio Production</td>
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<td>CMM 342</td>
<td>Fund-Video Productn</td>
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<tr>
<td>CMM 344</td>
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<tr>
<td>CMM 345</td>
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<td>CMM 440</td>
<td>Broadcast News</td>
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<td>CMM 442</td>
<td>Adv Television Prod</td>
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<td>CMM 444</td>
<td>Multimedia Dsn&amp;Prd II</td>
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<td>CMM 446</td>
<td>Electronic Media Mgt</td>
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<td>CMM 449</td>
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<tr>
<td>ENG 100</td>
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<tr>
<td>History</td>
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<tr>
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<td>Total Hours - general education courses/academic electives to total at least</td>
<td>124</td>
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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 hour requirement.

2. Flyer TV or WUDR.

3. Dance courses in the theatre program THR 201, THR 251, THR 261, THR 271, THR 301, THR 351, THR 361, THR 371, do not count toward the thirty-nine semester hour requirement.

4. Twelve semester hours from one of the following: (at least six semester hours at the 300/400 level)
   - Anthropology
   - Business Administration
   - Criminal Justice
   - Economics
   - Education
   - Management
   - Marketing
   - Political Science
   - Psychology
   - Social Work
   - Sociology
   - Visual Arts
   - Interdisciplinary Studies

Bachelor of Arts with a major in Communication-Journalism Concentration (jrn)

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<td>CMM 113</td>
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Dance courses in the theatre program THR 201, THR 251, THR 261, THR 271, THR 301, THR 351, THR 361, THR 371, do not count toward the thirty-nine semester hour requirement.

Twelve semester hours from one of the following: (at least six semester hours at the 300/400 level

- Anthropology
- Business Administration
- Criminal Justice
- Economics
- Education
- Management
- Marketing
- Political Science
- Psychology
- Social Work
- Sociology
- Visual Arts
- Interdisciplinary Studies

### Bachelor of Arts with a major in Communication- Public Relations Concentration (pub)

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<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
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<td>Persuasive Public Sp</td>
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<tr>
<td>CMM 133</td>
<td>Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>CMM 201</td>
<td>Foun-Mass Communctn</td>
<td>3</td>
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<tr>
<td>CMM 202</td>
<td>Foun-Com Thr&amp;Rsrch</td>
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<tr>
<td>CMM 330</td>
<td>Media Writing</td>
<td>3</td>
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<td>CMM 360</td>
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<td>CMM 412</td>
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<td>CMM 460</td>
<td>Pub Rel Writing</td>
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<tr>
<td>CMM 461</td>
<td>Pub Rel Campaigns</td>
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</thead>
<tbody>
<tr>
<td>CMM 331</td>
<td>Feature Writing</td>
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</tr>
<tr>
<td>CMM 332</td>
<td>Publication Design</td>
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<tr>
<td>CMM 421</td>
<td>Commnnctn-Organztns</td>
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<tr>
<td>CMM 430</td>
<td>Copyediting</td>
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<tr>
<td>CMM 469</td>
<td>Spe Top-Pub Retnns</td>
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<tr>
<td>CMM 498</td>
<td>Communctn Intrnshp</td>
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Select three courses from CMM or THR

### Bachelor of Arts with a major in Communication-Theatre Concentration (CTR)

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<td>CMM 330</td>
<td>Media Writing</td>
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<td>THR 203</td>
<td>Technical Productn</td>
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<tr>
<td>THR 310</td>
<td>Acting I</td>
<td>3</td>
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<tr>
<td>THR 340</td>
<td>Director-Theatre</td>
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<td>THR 415</td>
<td>Hst of the Theatre I</td>
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<tbody>
<tr>
<td>THR 305</td>
<td>Theatre Stagecraft</td>
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<tr>
<td>THR 307</td>
<td>Theatre Lighting</td>
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<tr>
<td>THR 323</td>
<td>Acting II</td>
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<tr>
<td>THR 325</td>
<td>Thry&amp;Crtsm Stage: I</td>
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<tr>
<td>THR 326</td>
<td>Thry&amp;Crtsm stage:II</td>
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<tr>
<td>THR 330</td>
<td>Concepts Scene Design</td>
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Select three courses from CMM or THR

Social Science/Professional Studies in a single academic discipline

Liberal Studies Curriculum

ASI 150  Intr to the Univ Exp  1
ENG 100  Writing Seminar I  6
& ENG 200  and Writing Seminar II
or ENG 200H  Writing Seminar II

Select three courses in CMM or THR  9
Creative and Performing Arts  3
L2 Proficiency (Proficiency in a language other than English)  0-11

Literature  3
Mathematics (excluding MTH 102, 204, 205)  3
Natural Sciences  11
Philosophy and Religious Studies  12
Social Sciences  12

Total Hours - general education courses/academic electives to total at least 124

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 hour requirement.

2 Dance courses in the theatre program THR 201, THR 251, THR 261, THR 271, THR 301, THR 351, THR 361, THR 371, do not count toward the thirty-nine semester hour requirement.

3 Twelve semester hours from one of the following: at least six semester hours at the 300/400 level
   - Anthropology
   - Business Administration
   - Criminal Justice
   - Economics
   - Education
   - Management
   - Marketing
   - Political Science
   - Psychology
   - Social Work
   - Sociology
   - Visual Arts
   - Interdisciplinary Studies

Minor in Communication (cmm)

Communication

CMM 110  Group Dec-Making  1
CMM 111  Inform Public Sp  1
or CMM 112  Persuasive Public Sp
CMM 113  Interviewing  1

Select four CMM courses (300/400-level)  12

Total Hours  15

1 In consultation with the chairperson.

Minor in Political Journalism (poj)

Political Journalism  1

CMM 201  Foun-Mass Communicatn  3

Communication/Social Sciences Courses

CMS 316. Intercultural Comm.  3 Hours
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.  3 Hours
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 & Communication.  3 Hours
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.

Communication Courses

CMM 100. Princ of Oral Comm.  3 Hours
PRINCIPLES OF ORAL COMMUNICATION CAP - Pilot: Focuses on the understanding and application of oral communication principles, dialogue, and civility. These principles are applied to situations in which students will explain complex ideas, advocate a position, and engage in civil dialogue with others who might not agree.

CMM 110. Group Dec-Making.  1 Hour
GROUP DECISION MAKING - 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.

CMM 111. Inform Public Sp.  1 Hour
INFORMATIVE PUBLIC SPEAKING - 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.
CMM 112. Persuasive Public Sp. 1 Hour
PERSUASIVE PUBLIC SPEAKING - 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.

CMM 113. Interviewing. 1 Hour
INTERVIEWING - 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.

CMM 201. Foun-Mass Communicatn. 3 Hours
FOUNDATIONS OF MASS COMMUNICATION - 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. Foun-Com Thr&Rsrch. 3 Hours
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 311. Stds-Oral Perfmrnce, 3 Hours
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 313. Nonverbal Communicatn. 3 Hours
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 315. Interntnl Mass Media. 3 Hours
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. Interpersn Commnctn. 3 Hours
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 Commnctn. 3 Hours
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. Prerequisite(s): CMM 110.

CMM 322. Intervwng-Comm & Bus. 3 Hours
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. Prerequisite(s): CMM 113.

CMM 330. Media Writing. 3 Hours
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. 3 Hours
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. Prerequisite(s): CMM 330.

CMM 332. Publication Design. 3 Hours
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. 3 Hours
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. 3 Hours
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. Fund of Broadcasting. 3 Hours
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. 3 Hours
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. Fund-Video Productn. 3 Hours
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-Elec Med. 3 Hours
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 Dsgn/Prd I. 3 Hours
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. Class Amer Film. 3-6 Hours
CLASSIC AMERICAN FILM - Topics course surveying the artistic evolution of American film. Includes 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. May be repeated once as topics change. Fee.

CMM 350. Propaganda Analysis. 3 Hours
PROPAGANDA ANALYSIS - Examination of major propaganda campaigns in history beginning with Greek democracy. Emphasis on twentieth century propaganda as psychological warfare. Principles of Aristotelian rhetorical theory applied to propaganda analysis.

CMM 351. Public Speaking. 3 Hours
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. Prerequisite(s): CMM 111 or CMM 112.

CMM 352. Persuasion. 3 Hours
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 354. Pol Campaign Comm. 3 Hours
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-Soc Movements. 3 Hours
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. Prin of Pub Rltns. 3 Hours
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. 1-3 Hours
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 six semester hours. Prerequisite(s): Permission of department chairperson.

CMM 397. Communicatn Practicum. 1-3 Hours
COMMUNICATION PRACTICUM - Contracted participation in an approved off-campus communication organization. One semester hour per term to a maximum of three semester hours. Grading Option Two only.

CMM 410. Family Communication. 3 Hours
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. 3 Hours
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 Mthd-Comm. 3 Hours
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. Comm in Infrmtn Age. 3 Hours
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. Devlpmnt-Mass Media. 3 Hours
DEVELOPMENT OF MASS MEDIA - History and analysis of the role of the media writing. Emphasis on its role in political and economic progress of U.S. and attendant responsibility.

CMM 420. Comm & Conflict Mgt. 3 Hours
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. Commnctn-Organztns. 3 Hours
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. 3 Hours
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. Prerequisite(s): CMM 330.

CMM 431. Public Affairs Reporting. 3 Hours
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. Prerequisite(s): CMM 330.
CMM 330. Law & News Media. 3 Hours
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 339. Spec Topics-Journlsm. 3-6 Hours
SPECIAL TOPICS IN JOURNALISM - Concentrated study in special areas of journalism. May be repeated with change of topic.

CMM 340. Broadcast News. 3 Hours
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. Studio fee. Prerequisite(s): CMM 330, CMM 342.

CMM 342. Adv Television Prod. 3 Hours
ADVANCED TELEVISION PRODUCTION - Advanced techniques of both studio and electronic field production and post-production editing for television. Studio fee. Prerequisite(s): CMM 342.

CMM 444. Multimedia Dsn&Prd II. 3 Hours
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, story boarding; digital image, sound and video editing; and the use of authoring software. Studio fee. Prerequisite(s): CMM 344.

CMM 446. Electronic Media Mgt. 3 Hours
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. Top-Electronic Media. 3 Hours
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. Pub Discourse & Crit. 3 Hours
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 Rel Writing. 3 Hours
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, CMM 360.

CMM 461. Pub Rel Campaigns. 3 Hours
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, CMM 360, CMM 460; senior standing.

CMM 469. Spe Top-Pub Relatns. 3 Hours
SPECIAL 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 476. Honors Thesis. 3 Hours
HONORS THESIS PROJECT - First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project. Students must be in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

CMM 478. Honors Thesis. 3 Hours
HONORS THESIS PROJECT - Second of two courses leading to the selection, design, investigation and completion of an independent, original Honors Thesis project. Students must be in the University Honors Program in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

CMM 488. Communicatin Intnshp. 1-6 Hours
COMMUNICATION INTERNSHIP - Communication work experience in an approved organization. Student must be in good academic standing. Students are normally limited to a maximum of three semester hours. Under exceptional circumstances, students may petition the department chair for an additional three semester hours 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. Grading Option Two only. Prerequisite(s): CMM 110, (CMM 111 or CMM 112), CMM 113, CMM 201, CMM 202, CMM 330; permission of department chairperson.

CMM 499. Sp Top-Communication. 3-6 Hours
SPECIAL TOPICS IN COMMUNICATION - Concentrated study in specific areas of speech communication. May be repeated once with change of topic.

Computer Science

Majors:
• Bachelor of Science, Computer Information Systems
• Bachelor of Science, Computer Science

Minors:
• Computer Information Systems
• Computer Science

The Department of Computer Science offers two programs leading to a Bachelor of Science degree in either Computer Science or Computer Information Systems. Both programs require the same introductory core sequence of courses in Computer Science. The main differences between the two programs are in the mathematics and science requirements and in the application emphases.
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 architecture. 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 student’s advisor.

Computer Information Systems
This program emphasizes computer science concepts with particular attention to systems analysis and design, and includes a concentration area chosen by the student in consultation with the student’s advisor.

These B.S. programs provide a foundation for students to embark on successful careers in a variety of computing disciplines, including software development, system design, database management, artificial intelligence, computer networking, systems programming and systems administration. In addition, graduates will be prepared to pursue graduate study in Computer Science and related disciplines.

Computer Science and Computer Information Systems majors are required to attain grades of C- or better in the following courses: CPS 150, CPS 151 and CPS 350.

A minor in computer science consists of twenty semester hours. A minor in computer information systems consists of twenty-three semester hours.

Faculty
Dale Courte, Chairperson
Professors Emeriti: Kester, Lang, Winslow
Professor: Sritharan
Associate Professors: Buckley, Courte, Gowda, Perugini, Smith,
Assistant Professor: Yao
Visiting Assistant Professor: Gothard
Lecturer: Sanyal

Bachelor of Science with a major in Computer Information Systems (cis)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CPS 150</td>
<td>Algorithm &amp; Program I</td>
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<tr>
<td>CPS 151</td>
<td>Algorithm &amp; Program II</td>
<td>4</td>
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<tr>
<td>CPS 242</td>
<td>User Interface Design</td>
<td>3</td>
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<tr>
<td>CPS 250</td>
<td>Intro-Computer Org</td>
<td>3</td>
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<td>CPS 310</td>
<td>Systems Analysis</td>
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<td>CPS 312</td>
<td>Systems Design</td>
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<td>CPS 341</td>
<td>Discrete Structures</td>
<td>3</td>
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<td>CPS 346</td>
<td>Operating Systems I</td>
<td>3</td>
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<tr>
<td>CPS 350</td>
<td>Data Structure &amp; Algorithm</td>
<td>3</td>
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<td>Select four CPS courses (343 level or above)</td>
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<td>Concentration: an approved minor, or these courses:</td>
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<td>ACC 207</td>
<td>Intro-Financial Acc</td>
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<td>ACC 208</td>
<td>Intro-Managerial Acc</td>
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<td>MGT 301</td>
<td>Organizational Behavior</td>
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<td>Survey of MKT</td>
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<td>PHL 319</td>
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<td>Mathematics 1</td>
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<td>MTH 148</td>
<td>Introductory Calc I</td>
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<td>MTH 149</td>
<td>Introductory Calc II</td>
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<td>MTH 367</td>
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<tr>
<td>Communication Competencies</td>
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<tr>
<td>Humanities 1</td>
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<tr>
<td>Natural Sciences 1</td>
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<td>Philosophy and Religious Studies 1</td>
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<td>Social and Behavioral Sciences 1</td>
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<td>Total Hours - general education courses/academic electives to total at least</td>
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1 This requirement will be satisfied in some cases by the minor that is chosen.

Bachelor of Science with a major in Computer Science (cps)

<table>
<thead>
<tr>
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<td>User Interface Design</td>
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<td>Intro-Computer Org</td>
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<td>CPS 350</td>
<td>Data Structure &amp; Algorithm</td>
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<td>CPS 387</td>
<td>Comp System Design I</td>
<td>3</td>
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<td>Select six CPS courses (300/400 level) 1</td>
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<td>Breadth Requirements</td>
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<td>CPS 353</td>
<td>Numerical Methods I 2</td>
<td>3</td>
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<td>MTH 168</td>
<td>Analy Geom &amp; Calc I</td>
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<tr>
<td>MTH 169</td>
<td>Analy Geom &amp; Calc II</td>
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<td>MTH 218</td>
<td>Analy Geom &amp; Calc III</td>
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<tr>
<td>MTH 367</td>
<td>Statistical Meth I</td>
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<tr>
<td>PHL 319</td>
<td>Information Ethics</td>
<td>3</td>
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<tr>
<td>BIO 151</td>
<td>Concepts of Bio I</td>
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<td>&amp; 151L</td>
<td>and Concepts-Bio Lab I</td>
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<td>&amp; BIO 152</td>
<td>and Concepts of Bio II</td>
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<tr>
<td>&amp; BIO 152L</td>
<td>and Concepts-Bio Lab II</td>
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<tr>
<td>CHM 123</td>
<td>General Chemistry</td>
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<td>&amp; 123L</td>
<td>and Gen Chemistry Lab</td>
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<td>&amp; CHM 124</td>
<td>and General Chemistry</td>
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<td>&amp; CHM 124L</td>
<td>and Gen Chemistry Lab</td>
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<tr>
<td>GEO 115</td>
<td>Physical Geology</td>
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<tr>
<td>&amp; 115L</td>
<td>and Physical Geology Lab</td>
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<tr>
<td>&amp; GEO 116</td>
<td>and Geologic Hst-Earth</td>
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<tr>
<td>&amp; GEO 116L</td>
<td>and Geologic Hst-Earth Lb</td>
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<td>PHY 206</td>
<td>Gen Physics I Mech</td>
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<td>&amp; PHY 207</td>
<td>and Gen Phy II Ele &amp; Mag</td>
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<tr>
<td>&amp; PHY 210L</td>
<td>and Gen Physics Lab I</td>
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<tr>
<td>&amp; PHY 211L</td>
<td>and Gen Physics Lab II</td>
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</tbody>
</table>
Communication Competencies

- Humanities: 9
- Natural Sciences: 6
- Philosophy and Religious Studies: 9
- Social and Behavioral Sciences: 6

Total Hours - general education courses/academic electives to total at least 120

1. These courses must cover three distinct topical areas as defined by the department.
2. CPS 353 will not count towards major requirement.
3. Select two acceptable courses for Science or Engineering majors.

Minor in Computer Information Systems (cis)

Computer Information Systems

- CPS 150. Algorithm & Program I
- CPS 151. Algorithm & Program II
- CPS 242. User Interface Design
- CPS 310. Systems Analysis
- CPS 312. Systems Design

Select two CPS courses (320 level or above)

Total Hours: 23

Minor in Computer Science (cps)

Computer Science

- CPS 150. Algorithm & Program I
- CPS 151. Algorithm & Program II
- CPS 350. Data Structure & Algorithm

Select three CPS courses (320 level or above, excluding CPS 437)

Total Hours: 20

Courses

CPS 107. Intro Comp Science, 3 Hours
INTRODUCTION TO COMPUTER SCIENCE - An introduction to the field of Computer Science, covering computers and society, the internals and externals of computer hardware and software, as well as some exposure to advanced topics of artificial intelligence, computer forensics, and databases. Intended for science and engineering students.

CPS 111. Intro-Personal Comp, 3 Hours
INTRODUCTION TO PERSONAL COMPUTERS - Emphasis on use of operating system, particularly file organization, and applications: word processor, spreadsheet, database and presentation software.

CPS 132. Programming-Engr & Sci, 3 Hours
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. Intro-Computr Progrm, 3 Hours
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. Algorithm & Program I, 4 Hours

CPS 151. Algorithm & Program II, 4 Hours
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 242. User Interface Design, 3 Hours
USER INTERFACE DESIGN - The importance and challenges of user interface design in software development are discussed and Graphical User Interfaces (GUI) are developed using an appropriate programming language. Reading assignments cover interface design issues and programming assignments focus on event-driven programming, exception handling, GUI development, web and multi-media applications, and data persistence. Prerequisite(s): CPS 151.

CPS 250. Intro-Comptr Org, 3 Hours
INTRODUCTION TO COMPUTER ORGANIZATION - Computer organization and architecture are studied from a software perspective. Data representation, program translation and execution are examined in the context of the classic von Neumann architecture. Programming projects involving both a higher-level language and an assembly language reinforce the architecture concepts. Prerequisite(s): CPS 151.

CPS 309. Special Topics, 1-4 Hours
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 majors/minors.

CPS 310. Systems Analysis, 3 Hours
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, 3 Hours
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, 3 Hours
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. 3 Hours
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. 3 Hours
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, CPS 350.

CPS 350. Data Struct&Algorithm. 3 Hours
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 132 or CPS 150; MTH 169.

CPS 353. Numerical Methods I. 3 Hours
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 CPS 150); MTH 169.

CPS 387. Comp System Desgn I. 3 Hours
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, CPS 341.

CPS 415. Software Testing. 3 Hours
SOFTWARE TESTING - 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 CPS 418); CPS 341, CPS 350.

CPS 420. Obj-Orient Sys Dev. 3 Hours
OBJECT ORIENTED SYSTEMS DEVELOPMENT - 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. Prerequisite(s): CPS 310, CPS 350.

CPS 422. Software Proj Mgmt. 3 Hours
SOFTWARE PROJECT MANAGEMENT - 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. Prerequisite(s): CPS 310 or CPS 418.

CPS 424. Discrete Evnt Simultn. 3 Hours
DISCRETE EVENT SIMULATION TECHNIQUES - Design and use of simulation models; study and use of special-purpose simulation languages such as GPSS and GASP IV, SIMSCRIPT II.5. Applications. Prerequisite(s): CPS 151.

CPS 430. Database Mgt Sys I. 3 Hours
DATABASE MANAGEMENT SYSTEMS - 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. Prerequisite(s): CPS 350.

CPS 432. Database Mgt Sys II. 3 Hours
DATABASE MANAGEMENT SYSTEMS II - 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. Prerequisite(s): CPS 430.

CPS 437. Sys Arch & Netwrkng. 3 Hours
SYSTEM ARCHITECTURES AND NETWORKING - 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. Prerequisite(s): MIS 380, MIS 385.

CPS 444. Systms Progrmng I. 3 Hours
SYSTEMS PROGRAMMING I - Analysis of compilers and their construction; programming techniques discussed in the current literature; advanced computer applications in mathematical and nonnumeric areas. Prerequisite(s): CPS 346, CPS 350.

CPS 460. Computer Graphics. 3 Hours
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 Communications. 3 Hours
DATA COMMUNICATIONS - Basic hardware and software architectural components for computer communications. Analysis of communication protocol layers with respect to performance, error handling and control functions. Switching, routing, multiprocessing and distributed processing. Case studies of existing networks and network architectures. Prerequisite(s): CPS 350.

CPS 472. Computer Networking. 3 Hours
**CPS 477. Honors Thesis. 3 Hours**

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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

**CPS 478. Honors Thesis. 3 Hours**

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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

**CPS 480. Artificial Intelligence. 3 Hours**

ARTIFICIAL INTELLIGENCE - Basic concepts and techniques of intelligent systems. Emphasis on representations, problem solving, search strategies, expert systems, mVigic systems, and AI programming. Design and implementation of AI applications. Prerequisite(s): CPS 350.

**CPS 481. Advanced Artificial Intelligence. 3 Hours**

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. 3 Hours**

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 Hours**

COOPERATIVE EDUCATION - Computer science cooperative education work experience in an approved organization. Not open to students with credit in CPS 497. Credit does not apply to major requirements. Repeat to a maximum of three semester hours. Prerequisite(s): Twelve hours of upper-level CPS courses with a GPA of 3.0; total ninety semester hours with a GPA of 2.75; permission of the department in advance of the work.

**CPS 497. Internship. 1-3 Hours**

INTERNSHIP - Computer science work experience in an approved organization. Not open to students with CPS 496 credit. Credit does not apply to major requirements. Repeat to a maximum of three semester hours. Prerequisite(s): Twelve semester hours of upper-level CPS courses with GPA of 3.0; total ninety semester hours and 2.75 GPA; permission of department in advance of the work.

**CPS 498. Problems. 1-4 Hours**

PROBLEMS IN COMPUTER SCIENCE - 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 Hours**

SPECIAL TOPICS IN COMPUTER SCIENCE - Lectures or laboratory work in such areas as advanced artificial intelligence, computer architecture, information retrieval, microprogramming, multiprocessing 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.

---

**Criminal Justice Studies**

**Major:**
- Bachelor of Arts, Criminal Justice

**Minor:**
- Criminal Justice

Criminal Justice is the scientific study of crime, deviance, and the agencies of the criminal justice system. The Bachelor of Arts with a major in criminal justice studies, is a broadly structured interdisciplinary and criminological curriculum designed to introduce students to:

1. A critical theory of criminal justice/criminology and
2. Requisite knowledge for public service, e.g., law enforcement and/or investigative services at the local, state and national levels; careers in the correctional field, community programs, and other rehabilitative services, as well as staff positions in the judiciary system; and
3. Preparation for pursuing advanced study in a criminological graduate program or law school.

In addition to courses in criminal justice studies, students take courses in political science, psychology, sociology, and social work.

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. Students intending to major or minor in CJS should consult with the program director to begin planning their CJS program. 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. The Criminal Justice Studies Program is a part of the Department of Sociology, Anthropology, and Social Work.

**Criminal Justice Committee**

Arthur J. Jipson, Director

Additional faculty who teach in the Criminal Justice Studies Program are located in several social science departments including: Sociology, Anthropology, and Social Work; Psychology; and Political Science. Faculty who teach in the program: Apolito (Criminal Justice Studies/Sociology), Becker (Sociology), Berry (Psychology), Cassiman (Social Work), Davis-Berman (Social Work), Donnelly (Sociology), Forbis (Sociology), Ghere (Political Science), Ingram (Political Science), Longazel (Sociology), Majka, L. (Sociology), Majka, T. (Sociology),
Bachelor of Arts with a major in Criminal Justice Studies-Option A (cjs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CJS 101</td>
<td>Intro to CJS</td>
<td>3-4</td>
</tr>
<tr>
<td>CJS 207</td>
<td>Resrch Mthds in CJS</td>
<td>3</td>
</tr>
<tr>
<td>CJS 347</td>
<td>Sr Project Design</td>
<td>1</td>
</tr>
<tr>
<td>CJS 447</td>
<td>Senior Project-CJS</td>
<td>3</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Criminological Thry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two behavior courses from:

- PSY 363 Abnormal Psychology
- PSY 461 Curr Impl-Drug Depnd
- SOC 325 Deviant Behavior
- SOC 327 Criminology
- SOC 410 Victimology
- SWK 325 Child Abuse

Select two institutions courses from:

- CJS 303 Corrections
- POL 303 State & Local Govt
- POL 305 Intro To Public Adm
- POL 360 Urban Politics
- SOC 323 Juvenile Justice
- SWK 305 Soc Ser Health Field

Select two law courses from:

- CJS 305 Criminal Law
- CJS 315 Criminal Procedure
- POL 301 Amer Judicial Process
- POL 411 Constitutional Law
- POL 450 Civil Liberties
- SOC 326 Law & Society

Select two social structure courses from:

- CJS 322 Policing & Society
- CJS 336 Comp Crim Jus Systms
- SOC 328 Racial&Eth Minorities
- SOC 339 Social Inequality
- SOC 351 Urban Sociology

Liberal Studies Curriculum

- ASI 150 Intr to the Univ Exp 1
- ENG 316 Elements of Style 3
- ENG 370 Rprt&Proposal Wrtng 3
- or ENG 372 Business Commicatn
- or ENG 474 Argumentation

Communication Competencies 3-9

Creative and Performing Arts 3

History 6

L2 Proficiency (Proficiency in a language other than English) 0-11

Literature 3

Mathematics (excluding MTH 102, 204, 205) 3

Natural Sciences 11

Philosophy and Religious Studies 12

Social Sciences 12

Total Hours - 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 six semester hours of internships 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 thirty-six 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 advanced by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

2 May substitute SOC 208, POL 207, or PSY 217.

3 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 for graduation.

Bachelor of Arts with a major in Criminal Justice Studies-Option B (cjs)

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>CJS 207</td>
<td>Resrch Mthds in CJS</td>
<td>3</td>
</tr>
<tr>
<td>CJS 347</td>
<td>Sr Project Design</td>
<td>1</td>
</tr>
<tr>
<td>CJS 447</td>
<td>Senior Project-CJS</td>
<td>3</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Criminological Thry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one behavior course from:

- PSY 363 Abnormal Psychology
- PSY 461 Curr Impl-Drug Depnd
- SOC 325 Deviant Behavior
- SOC 327 Criminology
- SOC 410 Victimology
- SWK 325 Child Abuse

Select one institutions course from:

- CJS 303 Corrections
- POL 303 State & Local Govt
- POL 305 Intro To Public Adm
- POL 360 Urban Politics
- SOC 323 Juvenile Justice
- SWK 305 Soc Ser Health Field

Select one law course from:

- CJS 305 Criminal Law
- CJS 315 Criminal Procedure
- POL 301 Amer Judicial Process
- POL 411 Constitutional Law
- POL 450 Civil Liberties
- SOC 326 Law & Society

Select one social structure course from:

- CJS 322 Policing & Society
- CJS 336 Comp Crim Jus Systms
- SOC 328 Racial&Eth Minorities
- SOC 339 Social Inequality

Liberal Studies Curriculum

- ASI 150 Intr to the Univ Exp 1
- ENG 316 Elements of Style 3
- ENG 370 Rprt&Proposal Wrtng 3
- or ENG 372 Business Commicatn
- or ENG 474 Argumentation

Communication Competencies 3-9

Creative and Performing Arts 3

History 6

L2 Proficiency (Proficiency in a language other than English) 0-11

Literature 3

Mathematics (excluding MTH 102, 204, 205) 3

Natural Sciences 11

Philosophy and Religious Studies 12
Minor in Criminal Justice Studies (cjs)

Criminal Justice Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CJS 101</td>
<td>Intro to CJS</td>
<td>3-4</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Criminological Thry</td>
<td>3</td>
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</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENG 316</td>
<td>Elements of Style</td>
<td>3</td>
</tr>
<tr>
<td>ENG 370</td>
<td>Rprt&amp;Proposal Wrtng</td>
<td>3</td>
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<tr>
<td>or ENG 372</td>
<td>Business Commicatn</td>
<td></td>
</tr>
<tr>
<td>or ENG 474</td>
<td>Argumentation</td>
<td></td>
</tr>
</tbody>
</table>

Select four CJS courses (300/400 level)

Total Hours 18-19

1 One course from each of the four areas involving behavior, institutions, law, and social structure.

Courses

CJS 101. Intro to CJS. 3-4 Hours
INTRODUCTION TO CRIMINAL JUSTICE STUDIES - Introduction to the field of criminal justice studies, stressing the theoretical foundations, origin, nature, methods, and limitations of criminal justice studies as a college curriculum.

CJS 207. Resrch Mthds in CJS. 3 Hours
RESEARCH METHODS IN CRIMINAL JUSTICE STUDIES - Review of the nature, language, and processes of inquiry involving experiments, studies, surveys, and investigations. The instrumentation, types, and structures of content analysis, questionnaires, interviews, and structured observation, including analytic techniques, data processing resources, and preparation of research reports are also examined. Prerequisite(s): MTH 207 or PSY 216 or SOC 308.

CJS 300. CJS-Career Development. 1 Hour
CRIMINAL JUSTICE STUDIES CAREER DEVELOPMENT - Exploration of career opportunities and the professional career placement process including setting goals and identifying educational objectives, noting professional concerns, the role of a given criminal justice organization, and assessing experiences.

CJS 303. Corrections. 3 Hours
CORRECTIONS - 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. 3 Hours
CRIMINAL LAW - Principles of criminal liability, preparation of case materials, court procedures, and case disposition.

CJS 315. Criminal Procedure. 3 Hours
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 & Society. 3 Hours
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. Comp Crim Jus Systms. 3 Hours
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 497. Service Learning Exp. 1 Hour
SERVICE LEARNING EXPERIENCE - Supervised community research or service experience that complements a specific upper division course in Criminal Justice Studies. No more than three 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- or 400-level).

Economics

Major:
• Bachelor of Arts, Economics

Minor:
• Economics

In cooperation with the Department of Economics and Finance in the School of Business Administration, the College of Arts and Sciences offers the degree of Bachelor of Arts with a major in economics. The field of economics covers topics ranging from making sound business decisions to tackling some of society’s most challenging social issues. Economics students learn to think critically about how choices are made in the presence of scarcity. An undergraduate education in economics enables individuals to better understand and help resolve problems in today’s business and society.

The major in economics requires thirty semester hours of courses in economics: ECO 203, 204, 346, 347, 490, and five elective courses in economics.

A minor in economics is also available, requiring eighteen semester hours of courses in economics: ECO 203, ECO 204, ECO 346, ECO 347 and two elective courses in economics.

Information on a specialized degree, applied mathematical economics, (MTE) is offered by the Department of Mathematics.

Faculty
John Rapp, Chairperson
Edmund B. O’Leary Chair in Economics: John Ruggiero
Professors: Caporole, Frasca, Rapp, Ruggerio
Associate Professors: Gustafson, Poltras
Asistant Professor: Collier
Lecturer: John

Bachelor of Arts with a Major in Economics (ECO)

Economics

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECO 203</td>
<td>Prin of Microecon ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>Prin of Macroecon ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECO 346</td>
<td>Intrmd MicroEco Anly ²</td>
<td>3</td>
</tr>
<tr>
<td>ECO 347</td>
<td>Intrmd MacroEco Anly</td>
<td>3</td>
</tr>
<tr>
<td>ECO 490</td>
<td>Sr Sem-Applied Eco</td>
<td>3</td>
</tr>
<tr>
<td>ECO electives (300/400 level)</td>
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<td>15</td>
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Liberal Studies Curriculum

<table>
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<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
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<td>Intr to the Univ Exp</td>
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Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 138</td>
<td>Calc I with Review ⁴</td>
<td>6-9</td>
</tr>
</tbody>
</table>
Government policy, money and banking, and international trade are analyzed. The determination of gross national product, employment, inflation and the interest rate in the U.S. economy.

PRINCIPLES OF MACROECONOMICS - 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.

PRINCIPLES OF MICROECONOMICS - 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.

ECO 203. Prin of Microecon. 3 Hours
PRINCIPLES OF MICROECONOMICS - 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.

ECO 204. Prin of Macroecon. 3 Hours
PRINCIPLES OF MACROECONOMICS - 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.

ECO 301. Sem in Market Econ. 3 Hours
SEMINAR IN MARKET ECONOMICS - Market solutions to economic and political issues. Topics vary, but may include issues relating to drugs, gun control, environmental concerns, government interventions, economic and political freedom, and others. Team taught course. Prerequisite(s): ECO 203.

ECO 340. Managerial Economics. 3 Hours
MANAGERIAL ECONOMICS - 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. Intrmd MicroEco Anly. 3 Hours
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. Intrmd MacroEco Anly. 3 Hours
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. 3 Hours
ANTITRUST ECONOMICS - Study of how economic analysis has been applied in the interpretation of the antitrust statutes. Examines major antitrust laws and relevant case law; reviews economic theories of market behavior. Prerequisite(s): ECO 204; ECO 203 recommended.

ECO 410. Bus&Eco Forecasting. 3 Hours
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, ECO 204; Statistics (DSC 211 or MTH 207 or MTH 367 or MTH 412).

ECO 415. Game Thry w/Fin App. 3 Hours
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 435. Eco of Environmnt. 3 Hours
ECONOMICS OF THE ENVIRONMENT - Introduction to the economics of the global environment including an analysis of market failure as a cause of environmental degradation. Topics covered include cost-benefit analysis, criteria for public investment, regulation of the environment, and the sustainable global environment. Prerequisite(s): ECO 203.
ECO 441. Econometrics. 3 Hours
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, ECO 204; differential calculus and basic statistics) or permission of instructor.

ECO 442. Money and Banking. 3 Hours
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, ECO 204.

ECO 445. Public Finance. 3 Hours
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, ECO 204.

ECO 460. Eco Develop & Growth. 3 Hours
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, ECO 204.

ECO 461. International Econ. 3 Hours
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, ECO 204.

ECO 471. Labor Economics. 3 Hours
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, ECO 204.

ECO 480. Sports Economics. 3 Hours
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; (DSC 211 or MTH 207) or equivalent.

ECO 485. Urban&Regional Econ. 3 Hours
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 488. Prod Eco&Perf Evltn. 3 Hours
PRODUCTION ECONOMICS AND PERFORMANCE EVALUATION - Intermediate course in theoretical and applied microeconomic production theory; provides a thorough discussion of the basic techniques of applied production theory and performance evaluation of decision making units. Topics include returns to scale, technical and allocative efficiency, benchmarking, environmental costs, and programming. Prerequisite(s): ECO 203.

ECO 490. Sr Sem-Applied Eco. 3 Hours
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. Typically offered during the spring semester. Economics or Business Economics majors only. Prerequisite(s): Twelve semester hours in Economics.

ECO 491. Honors Thesis. 3 Hours
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. 3 Hours
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. 3 Hours
SEMINAR - Subject varies from time to time. May be taken more than once if topic changes. Prerequisites to be announced.

ECO 496. Co - Op Work Term. 3 Hours
COCOPERATIVE 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. Economics or Business Economics majors only. Prerequisite(s): Permission of department chairperson.

ECO 497. Internship. 1-3 Hours
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 for the economics major. Economics or Business Economics majors only. Prerequisite(s): Forty-five semester hours of credit.

ECO 498. Independent Stdy-Eco. 1-6 Hours
INDEPENDENT STUDY IN ECONOMICS - 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.
**English**

**Major:**
- Bachelor of Arts, English

**Minor:**
- English

The University requirement in English composition is satisfied by the completion of ENG 100, ENG 200 or ENG 200H. 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 thirty-six semester hours of English courses, including first-year composition, and at least twenty-four semester hours at the 300/400 level.

A minor in English consists of twelve semester hours.

Students in B.A. programs can pursue State of Ohio teacher licensing in Integrated Language Arts through the Teacher Licensure Program conducted in conjunction with the Department of Teacher Education. Candidates must meet set standards for admission to this program, which must be verified by the Transfer Officer in the Office of the Dean, School of Education and Allied Professions. For further information, consult the Department of English chairperson.

The English department awards a writing certificate to students who achieve a 3.0 grade-point average in eighteen semester hours of approved writing and writing-related courses, including at least twelve 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**

Sheila Hassell Hughes, Chairperson
R. Andrew Slade, Director of Graduate Studies
Susan Trollinger, Director of Writing Programs

Professors Emeriti: August, Henninger, Labadie, H. Martin, Means, Murphy, Palumbo, Patrouch, Stockum, Youngkin

Professors: Farrelly, Kimbrough, K. Marre, Pici, Wilhoit

Associate Professors: Bardine, Boehnlein, Carrillo, Hughes, Krummel, McCombe, Morgan, Potter, Strain, Trollinger

Assistant Professors: Haan, Li, Slade, Szeghi, Thomas, Vorachek

Lecturers: Adams, Biswas, Burnside, Casola, DeAloia, Donch, Getrost, Keane-Sexton, MacKay, MacLeod, E. Martin, Stephens, Taaffe

### Bachelor of Arts with a major in English (eng)

<table>
<thead>
<tr>
<th>English</th>
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<tbody>
<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
</tr>
<tr>
<td>&amp; ENG 200</td>
<td>Writing Seminar II</td>
</tr>
<tr>
<td>or ENG 200H</td>
<td>Writing Seminar II</td>
</tr>
<tr>
<td>ENG 300</td>
<td>Lit Anl&amp;Rsrch-Poetry</td>
</tr>
<tr>
<td>ENG 301</td>
<td>Survey-Early Eng Lit</td>
</tr>
<tr>
<td>ENG 302</td>
<td>Survey-Later Eng Lit</td>
</tr>
<tr>
<td>ENG 305</td>
<td>Survey-American Lit</td>
</tr>
<tr>
<td>ENG 362</td>
<td>Shakespeare</td>
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</table>

### ENG 476 Composition Theory ²
or ENG 488 Literary Theory
or ENG 489 Rhetorical Criticism

<table>
<thead>
<tr>
<th>ENG 490 Seminar</th>
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</thead>
<tbody>
<tr>
<td>Select one writing course (300/400 level)</td>
</tr>
<tr>
<td>ENG electives</td>
</tr>
</tbody>
</table>

### Liberal Studies Curriculum

| ASI 150 Intr to the Univ Exp | 1 |
| Communication Competencies | 3 |
| Creative and Performing Arts | 3 |
| History | 6 |
| L2 Proficiency (Proficiency in a language other than English) | 0-11 |
| Mathematics (excluding MTH 102, 204, 205) | 3 |
| Natural Sciences | 11 |
| Philosophy and Religious Studies | 12 |
| Social Sciences | 12 |

Total Hours - general education courses/academic electives to total at least 124

1. ENG 100A and 100B together will satisfy the requirement of 3 semester hours of ENG 100. ASI 120 satisfies the requirement of 3 semester hours of ENG 200H. Students exempt from ENG 200H due to ACT/SAT scores still need to complete 36 semester hours for the major.

2. ENG 476 is recommended for students who plan to teach English and writing; ENG 488 is recommended for students who plan to pursue graduate studies in literature; ENG 489 is appropriate as a primary theory course for students who do not plan to teach and/or pursue graduate study in rhetoric-related fields.

### Minor in English (eng)

<table>
<thead>
<tr>
<th>English</th>
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</thead>
<tbody>
<tr>
<td>Select four ENG courses (300/400 level)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours 12

1. In addition to the composition requirement.

### Courses

ENG 100. Writing Seminar I. 3 Hours

WRITING SEMINAR I - Introductory composition course focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies.
ENG 100A. Writing Seminar IA. 2 Hours
WRITING SEMINAR IA - First half of year-long introductory composition course focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies. Prerequisite(s): Placement as determined by the Office of the Dean.

ENG 100B. Writing Seminar 1B. 2 Hours
WRITING SEMINAR 1B - Second half of year-long introductory composition course focused on personal and academic literacies, with an emphasis on expository writing. Instruction and practice in developing college-level reading, writing, research, and critical thinking skills. Emphasis is on a process approach to writing effective academic prose. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies. Prerequisite(s): ENG 100A.

ENG 101. Collg Composition I. 3 Hours
COLLEGE COMPOSITION I - 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 C- or higher to satisfy the University requirement in general reading and writing competencies.

ENG 102. Collg Composition II. 3 Hours
COLLEGE COMPOSITION II - 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 C- or higher to satisfy the University requirement in general reading and writing competencies.

ENG 151. Intro to Literature. 3 Hours
INTRODUCTION TO LITERATURE - Critical study of literary forms - fiction, drama, and poetry - representative of various eras and cultures. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 101) or ASI 110) or equivalent. ENG 100 or ENG 100B may be taken as a corequisite.

ENG 198. ENG Scholars Sem. 3 Hours
ENGLISH SCHOLARS' SEMINAR - 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 C- or higher to satisfy the University requirement in general reading and writing competencies.

ENG 200. Writing Seminar II. 3 Hours
WRITING SEMINAR II - Variable theme composition course focused on academic discourse, research, and argumentation. Instruction and practice in developing reading, writing, and research skills introduced in ENG 100 and employed across the curriculum. Emphasis is on rhetorical analysis and a process approach to writing effective academic arguments. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies. Prerequisite(s): ENG 100 or (ENG 100A, ENG 100B); sophomore standing or placement as determined by the Office of the Dean.

ENG 200H. Writing Seminar II. 3 Hours
WRITING SEMINAR II - Variable theme composition course focused on academic discourse, research, and argumentation. Instruction and practice in developing reading, writing, and research skills introduced in ENG 100 and employed across the curriculum. Emphasis is on rhetorical analysis and a process approach to writing effective academic arguments. Students must pass the course with a grade of C- or higher to satisfy the University requirement in general reading and writing competencies. Prerequisite(s): Placement as determined by the Office of the Dean.

ENG 203. Maj British Writers. 3 Hours
MAJOR BRITISH WRITERS - Study of four or five writers representative of the principal periods in English literature. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 204. Major Amer Writers. 3 Hours
MAJOR AMERICAN WRITERS - Study of four or five writers representative of the principal periods in American literature. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 205. Major World Writers. 3 Hours
MAJOR WORLD WRITERS - Study (in translation) of four or five writers representative of the principal periods in (chiefly Western world) literature, exclusive of English and American literature. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 210. Poetry. 3 Hours
POETRY - Study of representative examples of a major literary genre. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 230. Topics-Literature. 1-6 Hours
TOPICS IN LITERATURE - Exploration of varying approaches to the study of literature. Can be repeated under special circumstances. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 242. Sophomore Honors. 3 Hours
SOPHOMORE HONORS - Seminar in which selected works from the literature of Western civilization are studied. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 270. Rdg&Wrtg in Amer Univ. 4 Hours
READING AND WRITING IN THE AMERICAN UNIVERSITY - Provides students who are English language learners with an understanding of rhetorical principles and the conventions of Western academic literacy as well as competence in applying those principles and conventions for success as writers in an American university. Prerequisite(s): Permission of department chairperson.

ENG 271. Technical Writing Lab. 2 Hours
TECHNICAL WRITING LABORATORY - Designed to complement Engineering Technology courses by analyzing representative technical reports and documents and by providing guidance in planning, drafting, and revising writing assignments. Its focus is on the discipline-specific types of writing in the professional technical/engineering fields including laboratory reports, correspondence, technical descriptions, specifications, and proposals. Prerequisite(s): ENG 270.
ENG 271L. Tech Writing Lab. 2 Hours
TECHNICAL WRITING LABORATORY - Designed to complement Engineering Technology courses by analyzing representative technical reports and documents and by providing guidance in planning, drafting, and revising writing assignments. Its focus is on the discipline-specific types of writing in the professional technical/engineering fields including laboratory reports, correspondence, technical descriptions, specifications, and proposals. Prerequisite(s): ENG 270.

ENG 272. Writing & Research. 3 Hours
WRITING AND RESEARCH - Study and practice of research methods commonly required to complete writing assignments across the curriculum. Formulation of research questions, use of appropriate methods to gather data, analysis of information, and creation of effective written documents. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 282. Intro-Writing Poetry. 3 Hours
INTRODUCTION TO WRITING POETRY - Beginning course in analyzing and writing poetry. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 284. Intro-Writing Fiction. 3 Hours
INTRODUCTION TO WRITING FICTION - Beginning course in analyzing and writing short fiction. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 286. Intro-Writing Drama. 3 Hours
INTRODUCTION TO WRITING DRAMA - Beginning course in analyzing and writing short plays. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 300. Lit Ani&Rsrch-Poetry. 3 Hours
LITERARY ANALYSIS AND RESEARCH - POETRY - 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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 301. Survey-Early Eng Lit. 3 Hours
SURVEY OF EARLY ENGLISH LITERATURE - Survey of English literature from the Medieval period to the end of the eighteenth century. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 302. Survey-Later Eng Lit. 3 Hours
SURVEY OF LATER ENGLISH - Survey of English literature from the beginning of the Romantic period to the present. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 305. Survey-American Lit. 3 Hours
SURVEY OF AMERICAN LITERATURE - Survey of American literature from the Colonial period to the present. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 306. Surv-Continental Lit. 3 Hours
SURVEY OF CONTINENTAL LITERATURE - Survey of continental European literature from Homer to the present. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 308. Intrmd Poetry Wkshop. 3 Hours
INTERMEDIATE POETRY WORKSHOP - Intensive practice in the writing of poems. Prerequisite(s): ENG 282 or permission of department chairperson.

ENG 310. Intrmd Fiction Wkshp. 3 Hours
INTERMEDIATE FICTION WORKSHOP - Intensive practice in the writing of fiction. Prerequisite(s): ENG 284 or permission of department chairperson.

ENG 312. Adv Writing-Drama. 3 Hours
ADVANCED WRITING OF DRAMA - Intensive practice in the writing of plays. Prerequisite(s): ENG 286 or permission of department chairperson.

ENG 315. Creative Nonfiction. 3 Hours
CREATIVE NONFICTION - Study, analysis, and writing of a number of creative nonfiction forms, including memoir, personal essay, biography, opinion essay, and weblogs. Focus on writing process, rhetorical awareness, style, and voice in expressive writing. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 316. Elements of Style. 3 Hours
ELEMENTS OF STYLE - Study of stylistic options available to all writers. Examination of and practice in adapting writing style for various audiences and purposes, altering style to achieve desired effects, and developing a distinctive written voice. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent.

ENG 317. Contemporary Poetry. 3 Hours
CONTEMPORARY POETRY - Study of selected poems by recent writers. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 319. Contemporary Fiction. 3 Hours
CONTEMPORARY FICTION - Study of selected novels and short fiction by recent writers. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 320. Contemporary Drama. 3 Hours
CONTEMPORARY DRAMA - Study of selected plays to illustrate major tendencies of modern drama. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 322. Masterpc-Wold Lit. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 323. Lit-Christn Tradtn. 3 Hours
LITERATURE OF THE CHRISTIAN TRADITION - Study of literary works that form part of the Christian religious tradition. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 324. The Novel. 3 Hours
THE NOVEL - Consideration of selected novels to illustrate various fictional modes. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.
ENG 325. Science Fiction. 3 Hours
SCIENCE FICTION - Survey of science fiction with detailed analysis of selected novels and short fiction. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 326. Sport & Literature. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 327. Studies-Populr Fictn. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 328. Amer Nobel Authors. 3 Hours
AMERICAN NOBEL AUTHORS - Analysis and discussion of the works of several American Nobel Prize winners in the field of literature. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 329. Short Story. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 330. Development of Drama. 3 Hours
DEVELOPMENT OF DRAMA - Study of the historical development of the drama from its beginnings to the nineteenth century. Analysis of plays from each significant period. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 331. Studies in Film. 3 Hours
STUDIES IN FILM - Analysis of selected films to show developments in film technique or criticism. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 332. Studies-Lit & Film. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 333. Images-Women in Lit. 3 Hours
IMAGES OF WOMEN IN LITERATURE - Examination of significant literary works that present and respond to images of women, with critical attention to social and historical context, including application of feminist critical approaches. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 334. Modern Men-Images. 3 Hours
MODERN MEN - IMAGES - Critical examination of significant literary works that portray males in traditional and non-traditional roles. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 335. African Amer Lit. 3 Hours
AFRICAN AMERICAN LITERATURE - Study of African American writers and their oral and literary traditions. Emphasis on issues such as race, gender, and religion. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 336. Gender in Fiction. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 337. Studies-Folklore. 3 Hours
STUDIES IN FOLKLORE - Selected studies in American and/or world folklore. May be repeated as topics change. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 338. Images of Business. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 339. American Indian Lit. 3 Hours
AMERICAN INDIAN LITERATURE - Study of American Indian writers and their oral and literary traditions. Emphasis on such issues as race, gender, and religion. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 340. Prison in Lit. 3 Hours
THE PRISON IN LITERATURE - Survey of prison literature from the rise of the modern prison in the late eighteenth century through the contemporary period. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 341. Asian-American Lit. 3 Hours
ASIAN-AMERICAN LITERATURE - Study of Asian American writers and their oral and literary traditions. Emphasis on issues of race, gender, and class. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 342. Lit and Environment. 3 Hours
LITERATURE AND 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. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 343. Lit of the Fifties. 3 Hours
LITERATURE OF THE FIFTIES - Study of three identifiable cultures of the 1950s in America that were concerned with disillusionment, conformity, alienation, and artistic standards in literature: African-American, Beat, and Jewish writers. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.
ENG 344. Lit of the Sixties. 3 Hours
LITERATURE OF THE SIXTIES - Examination of the Sixties from the perspectives of cultural and literary studies. To this end, it focuses on major works of fiction, essays, New Journalism, and film. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 345. Coloni&Postcolnl Lit. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 346. Lit & Human Rights. 3 Hours
LITERATURE AND HUMAN RIGHTS - Study of works of literature that address human rights concerns, supplemented with study of foundational philosophical, theological, and political texts that address the meaning and origin of human rights. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 347. Young Adult Lit. 3 Hours
YOUNG ADULT LITERATURE - Critical study of literature written for young adults, including an analysis of the historical trends, debates, and issues in the field. Prerequisite(s): ENG 100 or 100B or 200H or ASI 110.

ENG 348. Modern Irish Lit. 3 Hours
MODERN IRISH LITERATURE - Consideration principally of the Irish literary revival of the late nineteenth and early twentieth centuries with appropriate background material. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 350. Eurpn Lit-Antiquity. 3 Hours
EUROPEAN LITERATURE OF ANTIQUITY - Study of significant works from the Old Testament and Greek, Roman, English, Irish, and/or Scandinavian writers. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 351. Eurpn Lit-Midl Ages. 3 Hours
EUROPEAN LITERATURE OF MIDDLE AGES - Study of selected literary masterpieces of western civilization in the Middle Ages. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 353. Lit-Renaissance. 3 Hours
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 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 354. Lit-Enlightenment. 3 Hours
LITERATURE OF THE ENLIGHTENMENT - Study of selected English and European literature from the Age of Reason. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 355. Lit-Romantic Age. 3 Hours
LITERATURE OF THE ROMANTIC AGE - Study of the Romantic Revolution as illustrated in representative writings of English and European authors. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 356. Eurpn Lit-19th Cent. 3 Hours
EUROPEAN LITERATURE OF THE 19TH CENTURY - Study of representative masterpieces from the literature of England and the Continent during the nineteenth century. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 357. Eurpn Lit-Early 20th. 3 Hours
EUROPEAN LITERATURE OF THE EARLY 20TH CENTURY - Study of significant English and European literature that illustrates the ideas and culture of the early modern period. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 358. Contemp Lit-Europe. 3 Hours
CONTEMPORARY LITERATURE OF EUROPE - Study of selected western European literature that illustrates the ideas and culture of the present age. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 360. Latina/Latino Lit. 3 Hours
US LATINA/LATINO LITERATURE - Study of U.S. Latina/o authors writing in English and their literary traditions. Emphasis on issues of race, gender, and class. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 362. Shakespeare. 3 Hours
SHAKESPEARE - Study of selected plays and poems of Shakespeare. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 362L. Shakespeare Perf Lab. 1 Hour
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. Shakespear’s Worlds. 3 Hours
SHAKESPEARE’S WORLDS - 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. Rprt&Proposal Wrtng. 3 Hours
REPORT AND PROPOSAL WRITING - Analysis and practice in effective report and proposal writing. Emphasis on employing appropriate rhetorical and technological tools to analyze, produce, and edit proposals and reports for both business and non-profit audiences. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing.

ENG 371. Technical Communicatn. 3 Hours
TECHNICAL COMMUNICATION - Study and practice of effective written communication in technical professions. Emphasis on rhetorical and technological tools and editing skills needed to analyze and create technical documents with written and visual elements. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing.
ENG 372. Business Commicatn. 3 Hours
BUSINESS COMMUNICATION - Study and practice in the principles and processes of effective written communication typically encountered in business and other professions. Focus on use of appropriate rhetorical and technological tools to analyze, write, and edit a range of texts including letters, memos, policies, procedures, job descriptions, resumes, performance reviews, reports, and proposals. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing.

ENG 373. Medical Writing. 3 Hours
MEDICAL WRITING - Intensive practice in reading and writing for the healthcare professions. Designed for pre-medicine, pre-dentistry, pre-veterinary, and pre-physical therapy students. Practice in research and workplace writing, uses of narrative in medicine, the personal essay, and MCAT essay. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing.

ENG 375. Rhetoric of the Web. 3 Hours
RHETORIC OF THE WORLD WIDE WEB - Analysis and production of textual and visual elements common to the World Wide Web. Emphasis on rhetoric of electronic communication, usability, audience analysis, and integrating text and graphics. Basic web development techniques will be covered, but previous experience is helpful. Knowledge of HTML, XML, and style sheets is helpful but not required. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent.

ENG 376. Topics in Writing. 1-6 Hours
TOPICS IN WRITING - Analysis of and practice in specific forms of writing. May be repeated as forms change. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent.

ENG 378. Prof & Tech Writing. 3 Hours
PROFESSIONAL AND TECHNICAL WRITING - Professional and Technical Writing.

ENG 379. Rhetoric of Science. 3 Hours
RHETORIC OF SCIENCE - Introduction to the role rhetoric and language play in science writing. Focus on the rhetorical analysis of public policy controversies involving science and technology and the role rhetoric plays in the public’s understanding of these issues. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent.

ENG 380. Studies in Lit. 1-6 Hours
STUDIES IN LITERATURE - Study of special topics or themes in literature. May be repeated as topics change. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 382. Mozart’s Operas. 3 Hours
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. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 383. Tragic Dilemma. 3 Hours
TRAGIC DILEMMA - Examination of tragedy from ancient times to modern times, with emphasis on both the form(s) of tragedy and the tragic vision of life. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 384. Chrstnty&Mod Poetry. 3 Hours
CHRISTIANITY AND MODERN POETRY - Study of selected poets from the modern period whose work draws from the major literary, intellectual, cultural, and theological traditions of Christianity. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 385. Rel & Literature. 3 Hours
RELIGION AND LITERATURE - Interdisciplinary study of literature and religion, seeking the sacred in the secular, discussing the doctrines of humans and of God in major writings, especially those of current collegiate interest. Prerequisite(s): ((ENG 100 or ENG 100B or ENG 200 or ENG 200H) or ASI 110) or equivalent.

ENG 395. Jr Honors Tutorial. 3 Hours
JUNIOR HONORS TUTORIAL - Independent directed study on special topics for selected students. May be repeated as topic or instructor changes. Prerequisite(s): ((ENG 200 or ENG 200H) or ASI 120) or equivalent; junior standing; permission of instructor.

ENG 405. Chaucer. 3 Hours
CHAUCER - Study of Chaucer’s life, world, language, and literary achievement, concentrating on The Canterbury Tales (in Middle English). Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 407. Medieval English Lit. 3 Hours
MEDIEVAL ENGLISH LITERATURE - Study of the dominant types in the literature of England from the beginning to 1500. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 410. Early Renaissance Lit. 3 Hours
EARLY RENAISSANCE LITERATURE - Survey of the literature of the sixteenth century from Thomas More to Sidney and Spenser. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 414. Later Renaissance Lit. 3 Hours
LATER RENAISSANCE LITERATURE - Survey of the literature of the early seventeenth century from Bacon, Jonson, and Donne to Marvell, exclusive of Milton. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 431. Milton. 3 Hours
MILTON - Study of the major and minor poems and selected prose of Milton. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 433. Stds-Neo-Classcl Lit. 3 Hours
STUDIES IN NEO-CLASSICAL LITERATURE - Study of English literature from Dryden to Johnson. May be repeated as topics change. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 438. English Romanticism. 3 Hours
ENGLISH ROMANTICISM - Study of the major poets and criticism of the Romantic Age. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 444. Stds-19th Cn Eng Lit. 3 Hours
STUDIES IN 19TH CENTURY ENGLISH LITERATURE - Study of English literature in the nineteenth century. May be repeated as topics change. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.
ENG 448. 20th Centr Britsh Lit. 3 Hours
20TH CENTURY BRITISH LITERATURE - Study of significant developments in modern British literature. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 451. American Romanticism. 3 Hours
AMERICAN ROMANTICISM - Study of significant developments in American literature of the mid-19th century. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 453. Amer Realism&Natrism. 3 Hours
AMERICAN REALISM AND NATURALISM - Study of representative writers from the post-Civil War period in American literature. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 455. 20th Centruy Amer Lit. 3 Hours
20TH CENTURY AMERICAN LITERATURE - Study of significant developments in American literature of the twentieth century. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 460. Adv Poetry Workshop. 3 Hours
ADVANCED POETRY WORKSHOP - Intensive practice in writing of poetry and production of a chapbook. Prerequisite(s): ENG 308.

ENG 462. Adv Fiction Wkshp. 3 Hours
ADVANCED FICTION WORKSHOP - Intensive practice in writing of fiction and production of a novella or short story cycle. Prerequisite(s): ENG 310.

ENG 468. Intro to Linguistics. 3 Hours
INTRODUCTION TO LINGUISTICS - Introduction to the basic concepts and procedures of general linguistics, including language description, history, variation, theory, and acquisition. Prerequisite(s): ((ENG 102 or ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing or permission of department chairperson.

ENG 470. History of English. 3 Hours
HISTORY OF ENGLISH - Study of stages in the development of the English language and of influences shaping its development from the beginning to the present. Prerequisite(s): ((ENG 102 or ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing or permission of department chairperson.

ENG 472. Structure of English. 3 Hours
THE STRUCTURE OF ENGLISH - Study of the grammatical structure of modern English from traditional and modern linguistic points of view. Prerequisite(s): ((ENG 102 or ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing or permission of department chairperson.

ENG 474. Argumentation. 3 Hours
ARGUMENTATION - Intensive study of argumentative writing. Theories and principles of argument and persuasion. Emphasis on formal arguments. Prerequisite(s): ((ENG 102 or ENG 200 or ENG 200H) or ASI 120) or equivalent; junior or senior standing or permission of department chairperson.

ENG 476. Composition Theory. 3 Hours
COMPOSITION THEORY - 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. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

ENG 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved ENG 477; approval of University Honors Program.

ENG 480. Independent Study. 1-6 Hours
INDEPENDENT STUDY - Individual investigations of special topics under faculty direction. May be repeated under special circumstances. Prerequisite(s): At least fifteen semester hours of English; permission of department chairperson.

ENG 481. Top-English Studies. 1-6 Hours
TOPICS IN ENGLISH STUDIES - Systematic study of a specialized topic in English Studies. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 482. Modern Poetry. 3 Hours
MODERN POETRY - Concentrated, advanced study in the development of modern poetry, both English and American. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 485. Internship-Writing. 1-6 Hours
INTERNSHIP IN WRITING - 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. Option 2 grading only. Prerequisite(s): ENG 370, ENG 371, ENG 372; junior or senior standing; 2.5 cumulative GPA and at least 3.0 GPA in English courses; permission of Internship Coordinator.

ENG 488. Literary Theory. 3 Hours
LITERARY THEORY - Comparative critical reading of classical and modern theoretical texts and analysis of critical methodology. Prerequisite(s): 200- or 300-level English course excluding ENG 200, ENG 200H.

ENG 489. Rhetorical Criticism. 3 Hours
RHETORICAL CRITICISM - Study and practice of classical and contemporary rhetorical theories and techniques. Focus on writing rhetorical analyses of non-literary texts, including political discourse, advertising, scholarly essays, and visual images. Prerequisite(s): (ENG 272 or ENG 316) or permission of instructor; junior or senior standing.
ENG 490. Seminar. 3 Hours
SEMINAR - 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, ENG 301, ENG 302, ENG 305, (ENG 476 or ENG 488 or ENG 489).

ENG 495. Sr Honors Tutorial. 3 Hours
SENIOR HONORS TUTORIAL - Independent directed study on special topics for selected students. May be repeated as topic or instructor changes. Prerequisite(s): Permission of department chairperson.

Family Development
The interdisciplinary minor in family development increases understanding of the meaning and dynamics of marriage and parenthood in contemporary society. It examines the family as a major institution affecting society and surveys the individual, social, and economic problems found within families. This background contributes to preparation for careers in areas such as social work, psychology, education, communication, human ecology, and religious work.

Students minoring in family development must complete sixteen semester hours, including ASI 448, SOC 331 and twelve semester hours from approved courses. The total semester hours for the minor must come from three different academic disciplines and may double count to majors and other minors.

Students desiring to minor in family development should notify their advisors, their deans, and the coordinator of family development.

Family Development Coordinator
Brenda Donnelly (Fitz Center for Leadership in Community)

Minor in Family Development (FDV)

<table>
<thead>
<tr>
<th>Family Development</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ASI 448</td>
<td>Sem-Family Development</td>
</tr>
<tr>
<td>SOC 331</td>
<td>Marriage &amp; Family</td>
</tr>
<tr>
<td>Select four courses from three different disciplines:</td>
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</tr>
<tr>
<td>ANT 320</td>
<td>Anthro of Childhoods</td>
</tr>
<tr>
<td>CMM 499</td>
<td>Sp Top-Communication</td>
</tr>
<tr>
<td>CMS 415</td>
<td>Women &amp; Communication</td>
</tr>
<tr>
<td>HST 351</td>
<td>Women Gender Am</td>
</tr>
<tr>
<td>HST 353</td>
<td>Hst-Women in Eurp Soc</td>
</tr>
<tr>
<td>HST 354</td>
<td>Hst-Women Mid East</td>
</tr>
<tr>
<td>PSY 251</td>
<td>Hum Growth &amp; Develop</td>
</tr>
<tr>
<td>PSY 351</td>
<td>Child Psychology</td>
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<tr>
<td>PSY 353</td>
<td>PSY Adult Dev/Aging</td>
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<tr>
<td>PSY 355</td>
<td>Devlp Psychpath</td>
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<tr>
<td>PSY 443</td>
<td>Psychology of Women</td>
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<tr>
<td>PSY 457</td>
<td>Tw/Effects on Chldrn</td>
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<tr>
<td>PSY 462</td>
<td>Human Sexuality</td>
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<td>REL 362</td>
<td>Chr Family Values&amp;TV</td>
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<tr>
<td>SOC 322</td>
<td>Sex Roles &amp; Society</td>
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<td>SOC 323</td>
<td>Juvenile Justice</td>
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<tr>
<td>SOC 330</td>
<td>Perspctves-Agng</td>
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<tr>
<td>SOC 333</td>
<td>Soc of Sexualities</td>
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<td>SOC 355</td>
<td>Families&amp;The Economy</td>
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<tr>
<td>Total Hours</td>
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</table>

Film Studies
The interdisciplinary minor in film studies (FLM) provides students an opportunity to explore one of the most popular and influential media of the twentieth century. Students study the history, theory, and aesthetics of film and consider film from literary, philosophic, religious, economic, and creative perspectives. The minor complements many of the existing majors in the arts and sciences and enhances the academic preparation of students who are considering graduate school and/or careers in film criticism, screenwriting, or film production.

Students minoring in film studies must complete thirteen semester hours, including ASI 350 and twelve semester hours from approved courses. The total semester hours for the minor must come from at least three different academic disciplines.

Students desiring to minor in film studies should notify their respective deans and the coordinator of film studies.

Film Studies Committee
James Farrelly (English), Coordinator
Fouke (Philosophy), Kimbrough (English), McCombe (English), Zukowski (Religious Studies)

Minor in Film Studies (FLM)

<table>
<thead>
<tr>
<th>Film Studies</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ASI 350</td>
<td>Interdisp Film Study</td>
</tr>
<tr>
<td>Select four courses from:</td>
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<tr>
<td>CMM 345</td>
<td>Class Amer Film</td>
</tr>
<tr>
<td>ENG 331</td>
<td>Studies in Film</td>
</tr>
<tr>
<td>ENG 332</td>
<td>Studies-Lit &amp; Film</td>
</tr>
<tr>
<td>MUS 327</td>
<td>Music in Film</td>
</tr>
<tr>
<td>PHL 324</td>
<td>Philosophy &amp; Film</td>
</tr>
<tr>
<td>REL 372</td>
<td>Religion &amp; Film</td>
</tr>
<tr>
<td>Total Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

1 Capstone course taken after all elective courses have been completed.
2 Or other courses with permission of the committee.

General Studies
• Bachelor of General Studies

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.
**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 thirty semester 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 thirty semester 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, MTH 205).
3. Study of the natural sciences by completing seven semester hours in approved natural science courses (biology, chemistry, geology, physics), including one course with accompanying laboratory.
4. A minimum of fifty-four semester hours of courses at the 300-400 level with a grade point average of 2.0 or better.
5. Not more than thirty 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.

A Bachelor of General Studies requires at least 120 semester hours of credit.

**Geology**

**Majors:**
- Bachelor of Science, Environmental Geology
- Bachelor of Science, Geology

**Minor:**
- Geology

Geology is the study of the Earth past and present. 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 physical and biological changes, and in predicting future environmental change.

The geology department offers two programs leading to Bachelor of Science degrees 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 broad foundation in the fundamentals of earth science as well as an interdisciplinary curriculum that includes geology, biology, chemistry, and other allied science courses. The EVG curriculum stresses the interdisciplinary nature of environmental concerns.

The geology department aims to prepare students for both careers in the geological sciences and further academic studies. Hence, graduates of the department are highly 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
- 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**
Daniel Goldman, Chairperson
Professor Emeritus: Ritter
Professors: Pair, Sandy
Associate Professors: Goldman, Koziol, A. McGrew
Assistant Professor: Wu
Visiting Assistant Professor: Haritashya
Lab Coordinator: Schoenenberger

**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.

**Geology**

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Year 1</td>
<td>GEO 115 &amp; 115L</td>
<td>Physical Geology and Physical Geology Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO 116 &amp; 116L</td>
<td>Geolcl Hst-Earth and Geolcl Hst-Earth Lab</td>
<td>4</td>
</tr>
<tr>
<td>Year 2</td>
<td>GEO 201 &amp; 201L</td>
<td>Mineralogy and Mineralogy Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO 208</td>
<td>Environmentl Geology</td>
<td>3</td>
</tr>
<tr>
<td>Year 3</td>
<td>GEO 301 &amp; 301L</td>
<td>Structural Geology and Structural Geo Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO 307 &amp; 307L</td>
<td>Geomorphology and Geomorphology Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO 310 &amp; 310L</td>
<td>Stratigraphy and Stratigraphy Lab</td>
<td>4</td>
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<tr>
<td>Year 4</td>
<td>GEO 308</td>
<td>Probs-Envrntl Geo</td>
<td>3</td>
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<tr>
<td></td>
<td>GEO 309 &amp; 309L</td>
<td>Surf&amp;Groundwr Hydr and Surf&amp;Groundwr Hy Lb</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO 479L</td>
<td>Environmntl Inst Lab</td>
<td>2</td>
</tr>
</tbody>
</table>
Select two GEO electives from:  
- GEO 302 Glacial Geology & 302L and Glacial Geology Lab 
- GEO 303 Field Geology 
- GEO 401 Paleontology & 401L and Paleontology Lab 
- GEO 403 Sedimentology & 403L and Sedimentology Lab 
- GEO 404 Problems in Geology 
- GEO 411 Petrology & 411L and Petrology Lab 
- GEO 412 Intro Geochemistry & 412L and Intro Geochemistry Lab 
- GEO 450 Applied GIS 
- GEO 477 Honors Thesis 
- GEO 478 Honors Thesis 
- GEO 498 Research & Thesis

Select six science electives from:  
- BIO 310 Ecology & 310L and Ecology Lab 
- BIO 350 Applied Microbiology & 350L and Applied Microbiology Lab 
- BIO 452 Bio Rivers & Lakes & 452L and Bio River&Lake Lab 
- BIO 459 Environmtl Ecology & 459L and Environmtl Eco Lab 
- CEE 312 Geotechnical Engr & 312L and Geotechncl Engr Lab 
- CEE 390 Envr Pollutn Cntrl 
- CEE 434 Water & Waste Engr & 434L and Watr&Waste Engr Lab 
- CHM 201 Quantitative Anal & 201L and Quant Analysis Lab 
- CHM 302 Physical Chemistry 
- CHM 313 Organic Chemistry & 313L and Organic Chemistry Lab 
- CHM 341 Environmental Chem & 341L and Environmntl Chm Lab 
- CPS 132 Progrmmng-Engr & Sci 
- CPS 144 Intro-Computr Progrm 
- MTH 218 Anly Geom & Calc III 
- MTH 219 Appl Diff Equations 
- MTH 367 Statistical Meth I 
- MTH 368 Statistical Meth II

Breadth Requirements
- ASI 150 Intr to the Univ Exp 1 
- BIO 151 Concepts of Bio I 3 
- BIO 152 Concepts of Bio II 3 
- CHM 123 General Chemistry & 123L and Gen Chemistry Lab 
- CHM 124 General Chemistry & 124L and Gen Chemistry Lab 
- MTH 168 Anly Geom & Calc I 4 
- MTH 169 Anly Geom & Calc II 4 
- MTH 168 Anly Geom & Calc I 2 4 
- MTH 169 Anly Geom & Calc II 2 4

PHYSICS
- PHY 196 Gen Physics I Mech 3 
- PHY 197 Gen Phy II Ele & Mag 3 

Communication Competencies 3-9
- Humanities 9 
- Philosophy and Religious Studies 12 
- Social and Behavioral Sciences 6 

Total Hours - general education courses/academic electives to total at least 120

1 May substitute PHY 201-PHY 202 with permission.
2 May substitute MTH 148-MTH 149 or MTH 138 & MTH 149 with permission.

Bachelor of Science with a major in Geology (GEO)

Geology

Year 1
- GEO 115 Physical Geology & 115L and Physical Geology Lab 4 
- GEO 116 Geolgl Hst-Earth & 116L and Geolgl Hst-Earth Lab 4

Year 2
- GEO 201 Mineralogy & 201L and Mineralogy Lab 4

Year 3
- GEO 301 Structural Geology & 301L and Structural Geo Lab 4 
- GEO 307 Geomorphology & 307L and Geomorphology Lab 4

Year 4
- GEO 303 Field Geology 6 
- GEO 310 Stratigraphy & 310L and Stratigraphy Lab 4 
- GEO 401 Paleontology & 401L and Paleontology Lab 4 
- GEO 403 Sedimentology & 403L and Sedimentology Lab 4

Select two GEO electives from:  
- GEO 302 Glacial Geology & 302L and Glacial Geology Lab 
- GEO 308 Probs-Envrmntl Geo & 308L and Probs in Env Geo Lab 
- GEO 309 Surf&Groundwtr Hydr & 309L and Surf&Groundwtr Hy Lb 
- GEO 404 Problems in Geology 
- GEO 411 Petrology & 411L and Petrology Lab 
- GEO 412 Intro Geochemistry & 412L and Intro Geochemistry Lab 
- GEO 450 Applied GIS 
- GEO 477 Honors Thesis 
- GEO 478 Honors Thesis 
- GEO 479L Environmntl Inst Lab 
- GEO 498 Research & Thesis

Science electives and laboratories where applicable from: 8
BIO, CHM, CPS, GEO, MTH, PHY, Engineering

**Breadth Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ASI 150</td>
<td>Intr to the Univ Exp</td>
<td>1</td>
</tr>
<tr>
<td>CHM 123</td>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>&amp; 123L</td>
<td>and Gen Chemistry Lab</td>
<td></td>
</tr>
<tr>
<td>CHM 124</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 124L</td>
<td>and Gen Chemistry Lab</td>
<td></td>
</tr>
<tr>
<td>MTH 168</td>
<td>Anly Geom &amp; Calc I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 169</td>
<td>Anly Geom &amp; Calc II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 206</td>
<td>Gen Physics I Mech</td>
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</tr>
<tr>
<td>PHY 207</td>
<td>Gen Phy II Ele &amp; Mag</td>
<td>3</td>
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</tbody>
</table>

**Communication Competencies**

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>3-9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>9</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours - general education courses/academic electives to total at least 120

1. With permission.
2. May substitute PHY 201-PHY 202 with permission.
3. May substitute MTH 148-MTH 149, or MTH 137, MTH 138 & MTH 149 with permission.

**Minor in Geology (GEO)**

**Geology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEO 103</td>
<td>Principles of Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 104</td>
<td>Bio-Geo Field Course</td>
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<td>GEO 104L</td>
<td>Bio-Geo Field Lab.</td>
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<tr>
<td>GEO 109</td>
<td>General Geology</td>
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</tr>
<tr>
<td>GEO 109L</td>
<td>General Geology Lab.</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours 12

1. Appropriate prerequisites must be completed.

**Courses**

**GEO 103. Principles of Geography. 3 Hours**

PRINCIPLES OF PHYSICAL GEOGRAPHY - Analysis of the physical factors of the earth's environment: weather, climate, land forms, oceans.

**GEO 104. Bio-Geo Field Course. 3 Hours**

BIOLOGY-GEOLOGY FIELD COURSE - Fundamental earth science topics with emphasis on direct field experience. One week on campus, three 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).

**GEO 109. General Geology. 3 Hours**

GENERAL GEOLOGY - Introduction to the earth as a planet, its composition, structure, and evolutionary development; a brief consideration of the life of the past. For the nonscience major. May be taken without laboratory.

**GEO 109L. General Geology Lab. 1 Hour**

GENERAL GEOLOGY LABORATORY - Course to accompany GEO 109. Two hours each week.

**GEO 115. Physical Geology. 3 Hours**

PHYSICAL GEOLOGY - 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.

**GEO 115L. Physical Geology Lab. 1 Hour**

PHYSICAL GEOLOGY LABORATORY - Course to accompany GEO 115. Two hours each week. Prerequisite(s): (GEO 109 or GEO 115); permission of instructor.

**GEO 116. Geological History of the Earth. 3 Hours**

GEOLOGICAL HISTORY OF THE EARTH - Comprehensive study of earth history from its origins to the present. Prerequisite(s): (GEO 109 or GEO 115); permission of instructor.

**GEO 116L. Geological History of the Earth Lab. 1 Hour**

GEOLOGICAL HISTORY OF THE EARTH LABORATORY - Course to accompany GEO 116. Two hours each week.

**GEO 198. Geo Land & Env. 3 Hours**

GEOLOGY, LANDSCAPE, AND ENVIRONMENT OF THE MIAMI VALLEY - 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 GEO 115 or permission of instructor.

**GEO 201L. Mineralogy Lab. 1 Hour**

MINERALOGY - 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 GEO 115) or permission of instructor.

**GEO 204. Geology for Teachers. 4 Hours**

GEOLOGY FOR TEACHERS - Introduction for preservice teachers to the Earth system and the processes that operate in the atmosphere, hydrosphere, biosphere, and solid Earth. Emphasis is on understanding how interactions among these fundamental Earth systems maintain our livable planet. Students will explore the Earth system through best practices in teaching and inquiry, and through field trips. For ECE, EMS, and EMM majors only. Students completing this course may not take SCI 210. Prerequisite(s): EDT 110; SCI 190.

**GEO 208. Environmental Geology. 3 Hours**

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 GEO 115) or permission of instructor.

**GEO 208L. Environmental Geology Lab. 1 Hour**

ENVIRONMENTAL GEOLOGY LABORATORY - Course to accompany GEO 208. Two hours each week.

**GEO 218. Engineering Geology. 3 Hours**

ENGINEERING GEOLOGY - Comprehensive study of geologic principles applicable to civil engineering practices.
GEO 234. Energy Resources. 3 Hours
ENERGY RESOURCES - The chemical and geological aspects of formation, production, and benefits/costs (including environmental impacts) of energy derived from fossil fuels (coal and hydrocarbons), biofuels (e.g., ethanol production), radioactive materials (nuclear power), and renewable sources (e.g., geothermal, hydro, wind, and solar power). Prerequisite(s): CHM 123, CHM 124. Corequisite(s): GEO 208.

GEO 301. Structural Geology. 3 Hours
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, GEO 116, GEO 201.

GEO 301L. Structural Geo Lab. 1 Hour
STRUCTURAL GEOLOGY LABORATORY - Course to accompany GEO 301. Two hours each week.

GEO 302. Glacial Geology. 3 Hours
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, GEO 116.

GEO 302L. Glacial Geology Lab. 1 Hour
GLACIAL GEOLOGY LABORATORY - Course to accompany GEO 302. Two hours each week.

GEO 303. Field Geology. 6 Hours
FIELD GEOLOGY - Study of field relationships in an area containing abundant igneous, metamorphic, and sedimentary rocks. Prerequisite(s): GEO 115, GEO 116.

GEO 307. Geomorphology. 3 Hours
GEOMORPHOLOGY - Detailed study of landforms and the erosional processes that develop them. Prerequisite(s): GEO 115, GEO 116.

GEO 307L. Geomorphology Lab. 1 Hour
GEOMORPHOLOGY LABORATORY - Course to accompany GEO 307. Two hours each week.

GEO 308. Probs-Envrmtl Geo. 3 Hours
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 GEO 115) or permission of instructor.

GEO 308L. Probs in Env Geo Lab. 1 Hour
PROBLEMS AND DECISIONS IN ENVIRONMENTAL GEOLOGY LABORATORY - Course to accompany GEO 308. Two hours each week and periodic field work.

GEO 309. Surf&Groundwtr Hydr. 3 Hours
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 GEO 218) or permission of instructor.

GEO 309L. Surf&Groundwtr Hy Lb. 1 Hour
SURFACE AND GROUNDWATER HYDROLOGY LABORATORY - Laboratory exercises to accompany GEO 309. Three hours per week.

GEO 310. Stratigraphy. 3 Hours
STRATIGRAPHY - The interpretation of specific lithotypes and the synthesis of the stratigraphic record. Prerequisite(s): GEO 116.

GEO 310L. Stratigraphy Lab. 1 Hour
STRATIGRAPHY LABORATORY - Course to accompany GEO 310. Two hours each week.

GEO 401. Paleontology. 3 Hours
PALEONTOLOGY - The study of ancient life. The morphology, ecology, evolution, and stratigraphic distributions of selected invertebrates, vertebrates, and plants.

GEO 401L. Paleontology Lab. 1 Hour
PALEONTOLOGY LABORATORY - Course to accompany GEO 401. Two hours each week.

GEO 403. Sedimentology. 3 Hours
SEDIMENTOLOGY - Detailed study of sediments: their sources, environments of deposition, and methods of consolidation. Emphasis on the interpretation of ancient sediments. Prerequisite(s): GEO 201.

GEO 403L. Sedimentology Lab. 1 Hour
SEDIMENTOLOGY LABORATORY - Course to accompany GEO 403. Two hours each week.

GEO 404. Problems in Geology. 1-4 Hours
PROBLEMS IN GEOLOGY - Consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

GEO 411. Petrology. 3 Hours
PETROLOGY - Study of the formation of sedimentary, igneous, and metamorphic rocks. Prerequisite(s): GEO 201.

GEO 411L. Petrology Lab. 1 Hour
PETROLOGY LABORATORY - Course to accompany GEO 411. Two hours each week. Prerequisite(s): GEO 201.

GEO 412. Intro Geochemistry. 3 Hours
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. Intro Geochmstry Lab. 1 Hour
INTRODUCTORY GEOCHEMISTRY LABORATORY - Course to accompany GEO 412. Three hours each week.

GEO 450. Applied GIS. 4 Hours
APPLIED GEOGRAPHIC INFORMATION SYSTEMS - 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 455. Environmental Remote Sensing. 4 Hours
ENVIRONMENTAL REMOTE SENSING - Introduction to principles and concepts of remote sensing, a sophisticated technology of earth observation that provides fundamental data for global environmental investigation. Prerequisite(s): GEO 208 or permission of instructor.

GEO 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

GEO 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

GEO 479L. Environmental Lab. 2 Hours
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. Prerequisite(s): (BIO 151, BIO 152) or (GEO 115, GEO 116) or permission of instructor.

GEO 485. GIS App-Wat Resources. 4 Hours
GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS IN WATER RESOURCES PLANNING AND MANAGEMENT - An introduction to GIS applications in water resource management. Following an introduction to GIS basics, this course focuses on GIS techniques in surface water modeling and floodplain delineation and management.

GEO 495. Geology Seminar. 1 Hour
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. Research & Thesis. 4 Hours
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.

History

Major:

- Bachelor of Arts, History

Minor:

- History

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
- Historical Administration
- Preservation
- 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
- 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

Juan Santamarina, Chairperson
Distinguished Service Professor: Palermo
Professors Emeriti: Alexander, Eid, Palermo, Taylor
Professors: Amin, Bednarek, Heitmann, Morman, Schweikart, Trollinger
Associate Professors: Agnew, Cadegan, Carlson, Carter, Darrow, Fleischmann, Flockering, Hume, Merithew, Santamarina
Assistant Professors: Borbonus, Reid
Adjunct Professor: Gannon
Lecturers: Bartley, Jaffe, Schuerman, Sextro, Sutherland, Uhlman, Washington
Bachelor of Arts with a major in History (HSt)

History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HST 103</td>
<td>West and World</td>
<td>3</td>
</tr>
<tr>
<td>HST 251</td>
<td>Amer Hst to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HST 252</td>
<td>Amer Hst Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HST 301</td>
<td>Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Select six HST electives (300 level)</td>
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<td></td>
</tr>
<tr>
<td>Select two HST seminars (400 level)</td>
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Liberal Studies Curriculum

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ASI 150</td>
<td>Intr to the Univ Exp</td>
<td>1</td>
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<tr>
<td>Communication Competencies</td>
<td>3-9</td>
<td></td>
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<tr>
<td>Creative and Performing Arts</td>
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<tr>
<td>L2 Proficiency (Proficiency in a language other than English)</td>
<td>0-11</td>
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</tr>
<tr>
<td>Literature</td>
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<tr>
<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<tr>
<td>Natural Sciences</td>
<td>11</td>
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<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
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<tr>
<td>Social Sciences</td>
<td>12</td>
<td></td>
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<tr>
<td>Total Hours - general education courses/academic electives to total</td>
<td>124</td>
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</tbody>
</table>

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 semester hours of the seminar requirement may be achieved through the fulfillment of an experiential component earned through completion of three semester hours of HST 495 Internship.

Minor in History (hst)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HST 103</td>
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</tr>
<tr>
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<td>Amer Hst to 1865</td>
<td>3</td>
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<tr>
<td>or HST 252</td>
<td>Amer Hst Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses in American history (300/400 level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select two courses in Non-American history (300/400 level)</td>
<td>6</td>
<td></td>
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<tr>
<td>Total Hours</td>
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<td>18</td>
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</tbody>
</table>

Courses

HST 103. West and World. 3 Hours
THE WEST AND THE WORLD - Survey of key themes in world history including the social, economic, cultural, political, and environmental forces that shaped the human past throughout the globe.

HST 198. HST Scholars Sem. 3 Hours
HISTORY SCHOLARS’ SEMINAR - 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.

HST 220. Ancient History. 3 Hours
SURVEY OF ANCIENT HISTORY - Survey of ancient Mediterranean, Middle Eastern, and Chinese history with emphasis on the interaction among these regions and the overall impact of antiquity. Prerequisite(s): HST 103 or equivalent.

HST 251. Amer Hst to 1865. 3 Hours
AMERICAN HISTORY TO 1865 - 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.

HST 252. Amer Hst Since 1865. 3 Hours
AMERICAN HISTORY SINCE 1865 - Survey of the development of the nation after the Civil War, stressing social, economic, and political problems. Prerequisite(s): HST 103 or equivalent.

HST 260. Asian History. 3 Hours
SURVEY OF ASIAN HISTORY - Historical survey of the cultures and states of Asia, from the origins of agricultural civilization to the modern period. Prerequisite(s): HST 103 or equivalent.

HST 280. Middle East History. 3 Hours
SURVEY OF MIDDLE EASTERN HISTORY - Historical survey of the cultures and societies of the Middle East, from the rise of Islam to the modern period. Prerequisite(s): HST 103 or equivalent.

HST 300. Career Dev-History. 1 Hour
CAREER DEVELOPMENT IN HISTORY - 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 (may be taken as a corequisite).

HST 301. Research Seminar. 3 Hours
RESEARCH METHODS SEMINAR - 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.

HST 302. Ancient Greece. 3 Hours
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. Hst Roman Rep&Emp. 3 Hours
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 304. Ancint Hst&Mod Idlgy. 3 Hours
ANCIENT HISTORY AND MODERN IDEOLOGY - Study of the ways in which the Classical past affects the modern world with a particular emphasis on the way in which modern thinkers and societies have used classical antiquity to envision, create, sustain and evaluate national identities and other ideologies. Prerequisite(s): HST 103 or equivalent.
HST 305. Medieval Europe. 3 Hours
MEDIEVAL EUROPE - European history from the fourth to the fifteenth 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&Reformtn. 3 Hours
RENAISSANCE AND REFORMATION - The development of European history from the fourteenth to the middle of the seventeenth 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. 3 Hours
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. 3 Hours
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-Democratc Revl. 3 Hours
AGE OF DEMOCRATIC REVOLUTIONS - Historical analysis of the ideological, political, social and economic changes of the late eighteenth and early nineteenth centuries, emphasizing developments in France and Europe. Prerequisite(s): HST 103 or equivalent.

HST 313. Europe 1815-1914. 3 Hours
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. Europe 1890-1945. 3 Hours
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 1945-Present. 3 Hours
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 & His Era. 3 Hours
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 320. European Mil Hst. 3 Hours
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. 3 Hours
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. 3 Hours
HISTORY OF ENGLAND - Major forces and trends in the history of England from the early medieval period to the present, including their influence on social history and literature. Prerequisite(s): HST 103 or equivalent.

HST 323. Modern Germany. 3 Hours
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. Comp Nationalism. 3 Hours
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. Hst-Russia 1860. 3 Hours
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. Hst-Sov Un 1860-Pr. 3 Hours
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. Natl Cult-Sov Union. 3 Hours
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, Caucasian, Central Asian, and Siberian neighbors. Prerequisite(s): HST 103 or equivalent.
HST 330. Hst E Asia to 1800. 3 Hours
HISTORY OF EAST ASIA TO 1800 - Survey of East Asian history from the formation of ancient states to the establishment of the dynastic hegemonies of the seventeenth and eighteenth centuries. Analysis of social, political, and cultural change in East Asia through the intensive reading of Chinese, Japanese, and Korean primary sources in translation. Prerequisite(s): HST 103 or equivalent.

HST 331. History of India. 3 Hours
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 & Japan. 3 Hours
MODERN CHINA & JAPAN - Study of the economic, political, social, and cultural developments of modern China and Japan from the eighteenth century to the present. Prerequisite(s): HST 103 or equivalent.

HST 333. Hst of Mode Mdie East. 3 Hours
MODERN MIDDLE EAST - 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. Hst Pal-Isrl Cflct. 3 Hours
HISTORY OF THE PALESTINIAN-ISREALI 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. Hst of South Asia. 3 Hours
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. Hst-Africa 19th Cn. 3 Hours
HISTORY OF AFRICA TO THE NINETEENTH 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. Hst Afr-19th Cn-Pr. 3 Hours
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. Stae & Sec S Asia. 3 Hours
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 340. History of Science. 3 Hours
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. Hstrcl Pers-Sci, Tech. 3 Hours
HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY - Historical study with an institutional focus of how science and science-based technology have interacted with American society from the Colonial era to the present. Central to this course is the genesis of mass production, its coupling with mass distribution, and the rise of the industrial research laboratory. Primary topics include the Industrial Revolution, the revolution in transport, the introduction of new technologies in the electrical, aviation, automotive, nuclear, petrochemical, and pharmaceutical industries, and the relationship between these science-based technologies and society. Prerequisite(s): HST 103 or equivalent.

HST 342. Environ Hst Americas. 3 Hours
ENVIRONMENTAL HISTORY OF THE AMERICAS - Comparison and contrast of the histories of conservationism and environmentalism in the United States, Canada and Latin America. Prerequisite(s): HST 103 or equivalent.

HST 343. Hst-Civil Engr. 3 Hours
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.

HST 344. Hst-Sci, Tch & Mod Crp. 3 Hours
HISTORY OF SCIENCE, TECHNOLOGY, AND THE MODERN CORPORATION - Historical study of the emergence of twentieth-century science-based industry. Prerequisite(s): HST 103 or equivalent.

HST 346. Hist of Aviation. 3 Hours
HISTORY OF AMERICAN AVIATION - 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. Prerequisite(s): HST 103 or equivalent.

HST 347. Sex, Race & Science. 3 Hours
SEX, RACE, AND SCIENCE - 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. Prerequisite(s): HST 103 or equivalent.

HST 348. Life and Technology. 3 Hours
LIFE AND TECHNOLOGY - Study of how conceptions of life and technology have been tied together in key historical periods: from the early modern era, the industrial age, and the information age. Topics include life and mechanical philosophy; energy, work and life; cybernetics; reproductive technologies and genetic engineering; bioinformatics; and automata and robots. Prerequisite(s): HST 103 or equivalent.

HST 349. Tech & Culture-War. 3 Hours
TECHNOLOGY AND THE CULTURE OF WAR - 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. Prerequisite(s): HST 103 or equivalent.
HST 350. Gay Lesbian US HST. 3 Hours
GAY AND LESBIAN U.S. HISTORY - Upper level survey course which traces the history and trajectory of Gay and Lesbian communities in the U.S. Prerequisite(s): HST 103.

HST 351. Women Gender Am. 3 Hours
AMERICAN WOMEN'S AND GENDER HISTORY - 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 politicial factors shape and change gender roles. Prerequisite(s): HST 103 or equivalent.

HST 352. Hst of Amer Family. 3 Hours
HISTORY OF THE AMERICAN FAMILY - Survey of the historical development of American family life from the colonial period to the present. Prerequisite(s): HST 103 or equivalent.

HST 353. Hst-Wom in Eur Soc. 3 Hours
HISTORY OF WOMEN IN EUROPEAN SOCIETIES - Study of the changing roles of women in European societies from the roots of industrialization to the present. Prerequisite(s): HST 103 or equivalent.

HST 354. Hst-Women Mid East. 3 Hours
HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST - Study of the history of the evolving roles and status of women in Middle Eastern societies, from the early modern period to present. Prerequisite(s): HST 103 or equivalent.

HST 355. American Urban Hist. 3 Hours
AMERICAN URBAN HISTORY - 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. Prerequisite(s): HST 103 or equivalent.

HST 356. Women in Third World. 3 Hours
COMPARATIVE HISTORY OF WOMEN IN THE THIRD WORLD - 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. Prerequisite(s): HST 103 or equivalent.

HST 357. Latin Amer-20th Cen. 3 Hours
LATIN AMERICA IN THE TWENTIETH CENTURY - Intensive examination of revolution and reaction in today's Latin America and the implications for those who formulate U.S. foreign policy. Prerequisite(s): HST 103 or equivalent.

HST 358. Soc& Cult Hst-Lat Am. 3 Hours
SOCIAL AND CULTURAL HISTORY OF LATIN AMERICA - 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. Prerequisite(s): HST 103 or equivalent.

HST 359. HST-Amer City Plan. 3 Hours
HISTORY OF AMERICAN CITY PLANNING - Historical analysis of efforts by Americans to shape the urban environment; focusing on the emergence of the discipline and profession of city planning. Includes examination of U.S. planning theories developed within a larger Atlantic community. Prerequisite(s): HST 103 or equivalent.

HST 360. US Legl/Const Hst I. 3 Hours
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. US Legl/Const Hst II. 3 Hours
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. Amer Films as Hst. 3 Hours
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 & Recnstr. 3 Hours
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. Eco & Bus Hst-US. 3 Hours
ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES - Survey and analysis of American economic history, 1600 to 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 371. US Working Class. 3 Hours
UNITED STATES WORKING CLASS - History of American workers - male and female, paid and unpaid, and free and slave - from the beginning of industrialization through the twentieth century. Prerequisite(s): HST 103 or equivalent.

HST 372. Hst-Rel in US. 3 Hours
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 Mil Hst. 3 Hours
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 & America. 3 Hours
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. US Foreign Relations. 3 Hours
HISTORY OF U.S. FOREIGN RELATIONS - Foundations of foreign relations since 1750; the expansion of foreign relations during the continental expansion of the nineteenth 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. Soc & Cult Hist of US. 3 Hours
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. Contempy Amer Hist. 3 Hours
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.

HST 378. Hst Globl Immgrnts-US. 3 Hours
HISTORY OF GLOBAL IMMIGRANTS TO THE UNITED STATES - 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. Prerequisite(s): HST 103 or equivalent.

HST 380. Native Amer History. 3 Hours
NATIVE AMERICAN HISTORY - Historical and descriptive survey of the native peoples of North America. Prerequisite(s): HST 103 or equivalent.

HST 382. History of Mexico. 3 Hours
HISTORY OF MEXICO - Survey of Mexican history from pre-Columbian civilization to the present. Prerequisite(s): HST 103 or equivalent.

HST 383. Hst of Caribbean. 3 Hours
HISTORY OF THE CARIBBEAN - 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. Prerequisite(s): HST 103 or equivalent.

HST 384. Econ Hst of Lat Am. 3 Hours
ECONOMIC HISTORY OF LATIN AMERICA - 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. Prerequisite(s): HST 103 or equivalent.

HST 385. Atlantic World. 3 Hours
THE ATLANTIC WORLD, 1492-1800 - 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. Prerequisite(s): HST 103 or equivalent.

HST 386. China in Revolution. 3 Hours
CHINA IN REVOLUTION - Study of the history of China’s turbulent twentieth century, with a focus on the social, political and cultural impacts of the 1911 Revolution, the Communist Revolution in 1949, and the Cultural Revolution of the 1960s. Prerequisite(s): HST 103 or equivalent.

HST 391. Amr Arch Hst&Presrvtn. 3 Hours
AMERICAN ARCHITECTURAL HISTORY AND PRESERVATION - 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. Prerequisite(s): HST 103 or equivalent.

HST 398. Hs Blks-US 1526-1900. 3 Hours
HISTORY OF BLACKS IN THE UNITED STATES, 1526-1900 - Study of the saga of black people in the U.S. from 1526 until 1900. Prerequisite(s): HST 103 or equivalent.

HST 399. Hst Blks-US s/1900. 3 Hours
HISTORY OF BLACKS IN THE U.S. SINCE 1900 - Study of the saga of black people in the U.S. from 1900 to the present. Prerequisite(s): HST 103 or equivalent.

HST 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

HST 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

HST 485. Sem In Amer History. 3 Hours
SEMINAR IN AMERICAN HISTORY - 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. Sem in European Hst. 3 Hours
SEMINAR IN EUROPEAN HISTORY - 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. Sem In Latin Am Hst. 3 Hours
SEMINAR IN LATIN AMERICAN HISTORY 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. Sem in African Hst. 3 Hours
SEMINAR IN AFRICAN HISTORY - 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. Sem in Histgrphy, 3 Hours
SEMINAR IN HISTOGRAPHY - 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 491. Sem in Ancient Hst. 3 Hours
SEMINAR IN ANCIENT HISTORY - Reading seminar concentrating on one historical topic in ancient history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 301.

HST 492. Seminar in Asian Hist. 3 Hours
SEMINAR IN ASIAN HISTORY - Reading seminar concentrating on one historical topic in Asian history for detailed analysis. May be repeated as topics change. Prerequisite(s): HST 301.

HST 493. Sem In Mid East Hst. 3 Hours
SEMINAR IN MIDDLE EASTERN HISTORY - 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 Hours
INTERNSHIP - 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 Hours
INDEPENDENT STUDY - 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 department chairperson.

HST 497. Honors Tutorial. 1-6 Hours
HONORS TUTORIAL - 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 Hours
TOPICS IN HISTORY - Specific subtitles and descriptions to be announced in the composite and posted in the History department office. Prerequisite(s): HST 103 or equivalent.

International Studies
Bachelor of Arts, International Studies

Concentrations:
• Africa in World Affairs
• Certificate in International Business / Economics Finance Concentration
• Certificate in International Business / Marketing Human Resources Concentration
• Cooperation and Change in the New Europe
• Global Economic Development
• Global Environmental Sustainability
• International Journalism
• Marianist Social Transformation
• Migration Concentration

• Peace and Global Security
• Women’s and Gender Issues in a Global Context

Minor:
• International Studies

International studies is a multidisciplinary major designed to meet the needs of students seeking the broadly based international perspective required for successful careers in education, government, international business, law, national and homeland security, humanitarian relief, and NGOs, among others. The curriculum includes a core of required courses, a concentration, a foreign language requirement, an international and/or cross-cultural experiential component, and a senior capstone seminar. The experiential component may be satisfied through study abroad, internship, language immersion, service, or work experience. The Center for International Programs and the Center for Social Concern can assist students in identifying many of these opportunities.

A minor in international studies consists of twenty-one semester hours.

International Studies Committee
Marybeth Carlson, Director
Bilocerkowycz (Political Science), Carlson (History), Fleischmann (History), Forbis (Sociology), Krugh (Languages).

Bachelor of Arts with a major in International Studies-Africa in World Affairs Concentration (INS)

<table>
<thead>
<tr>
<th>International Studies 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>ANT 306</td>
<td>Culture and Power</td>
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<tr>
<td>ECO 203</td>
<td>Prin of Microecon 2</td>
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<td>ECO 204</td>
<td>Prin of Macroecon 2</td>
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<td>INS 250</td>
<td>INS Research Methods 3</td>
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<td>INS 395</td>
<td>Intntl Experience 4</td>
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<td>or INS 495</td>
<td>Intntl Internship</td>
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<td>INS 499</td>
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<td>POL 202</td>
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<td>REL 363</td>
<td>Faith &amp; Justice</td>
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<td>HST Scholars Sem</td>
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<td>PHL 370</td>
<td>Political Philosophy</td>
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<td>Intro-Intrntl Poltics</td>
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### Concentration (Africa in World Affairs)

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<td>HST 336</td>
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<td>Islamic Phil&amp; Culture</td>
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<td>SOC 328</td>
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Foreign language appropriate to concentration \(^6\)

### Liberal Studies Curriculum

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<tbody>
<tr>
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<tr>
<td></td>
<td>Communication Competencies (^3)-(^9)</td>
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<td>Creative and Performing Arts</td>
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<td>History</td>
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<td>Literature</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<td></td>
<td>Natural Sciences</td>
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<td></td>
<td>Philosophy and Religious Studies</td>
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<td></td>
<td>Social Sciences</td>
</tr>
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Total Hours - general education courses/academic electives to total 124 at least

1. Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2. This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3. May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4. Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g., ROTC members) must fulfill this requirement with an internationally oriented internship.
5. Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.
6. Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.

### Bachelor of Arts with a major in International Studies-Certificate in International Business-Economics/Finance Concentration (INS)

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<tr>
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<td>INS 395</td>
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<td>Intro Comp Politics</td>
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<td>REL 363</td>
<td>Faith &amp; Justice</td>
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Select one course from: \(^5\)

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SPN 362  Survey-Spanish Lit II
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SPN 364  Surv Spn Am Lit II
SPN 380  Spn&Ibero-Amr Cinema
SPN 450  Spanish Literature
SPN 451  Spn-Amer Literature
SPN 471  TP:Spn Lit-20th Cent
SPN 472  Spn Lit-20th Cent II
SPN 480  Spn&Ibero-Amr Cinema

Concentration (Certificate in International Business - Economics/Finance) 7

ACC 207  Intro-Financial Acc 3
ACC 208  Intro-Managerial Acc 3
FIN 301  Intro to Financial Mgt 3
INB 450  Capstone Intrnl Bus 3
Select two courses from: 6
ECO 460  Eco Develop & Growth
ECO 461  International Econ
FIN 450  Interntl Bus Finance
Select two courses from: 6
ANT 356  Cultures of Africa
HST 315  Europe 1945-Present
HST 326  Hst-Sov Un 1860-Pr
HST 330  Hst E Asia to 1800
HST 332  Modern China&Japan
HST 333  Hst of Mode Mdle East
HST 334  Hst Pal-Islr Cflct
HST 337  Hst Afr-19th Cn-Pr
HST 353  Hst-Wom in Europ Soc
HST 354  Hst-Women Mid East
HST 356  Women In Third World
HST 357  Latin Amer-20th Cen
HST 382  History of Mexico
HST 383  Hst of Caribbean
POL 320  Western Europe
POL 321  Russia&New States
Foreign language appropriate to concentration 6

Liberal Studies Curriculum

ASI 150  Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 6
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1 Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2 This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3 May substitute CMM 412, HST 301, POL 207, SOC 208 or another approved research methods course.
4 Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g., ROTC members) must fulfill this requirement with an internationally oriented internship.
5 Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.
6 Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.
7 Students pursuing this concentration must take into account prerequisites or class standing restrictions. The certificate program includes ECO 203 and ECO 204, already core requirements for the major.

Bachelor of Arts with a major in International Studies-Certificate in International Business-Marketing/Human Resources Concentration (INS)

International Studies 1

ANT 150  Cultural Anthroplogy 3
ANT 306  Culture and Power 3
ECO 203  Prin of Microecon 2 3
ECO 204  Prin of Macroecon 2 3
INS 250  INS Research Methods 3
INS 395  Internl Experience 4
or INS 495  Internl Internship
INS 499  INS Senior Capstone 3
POL 202  Intro Comp Politics 3
REL 363  Faith & Justice 3
Select one course from: 3
ASI 110  Dev West Global Ctxt
HST 103  West and World
HST 198  HST Scholars Sem
Select one course from: 3
PHL 358  Marxist Philosophy
PHL 370  Political Philosophy
Select one course from: 3
POL 101  Global Politics
POL 214  Intro-Intrntl Poltics
Select one course from: 3
HST 375  US Foreign Relations
POL 408  Amer Foreign Policy
Select one course from: 5

University of Dayton
FRN 341  Frn Culture & Civ
FRN 361  Survey-French Lit I
FRN 362  Survey-French Lit II
FRN 381  History-Frn Cinema
FRN 450  French Literature
FRN 452  Old Wld Meets New
GER 351  German Film
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SPN 450  Spanish Literature
SPN 451  Spn-Amer Literature
SPN 471  TP:Spn Lit-20th Cent
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Concentration (Certificate in International Business - Marketing/HR) 7

ACC 207  Intro-Financial Acc 3
INB 450  Capstone Intrnl Bus 3
MGT 301  Organiztnl Behavior 3
MKT 301  Prin of Marketing 3
Select two courses from:  6
ECO 460  Eco Develop & Growth
MGT 403  Cross-Cult Managemnt
MGT 414  Multinatnltl Corp Mgt
MKT 340  Multicultrl Mkt Anly
MKT 440  Global Marketing
Select two courses from:  6
ANT 356  Cultures of Africa
HST 315  Europe 1945-Present
HST 326  Hst-Sov Un 1860-Pr
HST 330  Hst E Asia to 1800
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HST 383  Hst of Caribbean
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Foreign language appropriate to concentration 6
6
Liberal Studies Curriculum
ASI 150  Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
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Mathematics (excluding MTH 102, 204, 205) 3
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5 Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.
6 Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.
7 Students pursuing this concentration must take into account prerequisites or class standing restrictions.

Bachelor of Arts with a major in International Studies-Cooperation and Change in the New Europe Concentration (INS)

International Studies 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>Cultural Anthropoly</td>
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<tr>
<td>ANT 306</td>
<td>Culture and Power</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
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<tr>
<td>ECO 204</td>
<td>Prin of Macroecon</td>
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<tr>
<td>INS 250</td>
<td>INS Research Methods</td>
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<tr>
<td>INS 395</td>
<td>Internl Experience</td>
<td>1</td>
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<tr>
<td>or INS 495</td>
<td>Internl Internship</td>
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<tr>
<td>INS 499</td>
<td>INS Senior Capstone</td>
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<td>3</td>
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<tr>
<td>REL 363</td>
<td>Faith &amp; Justice</td>
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Select one course from:  3

ASI 110  Dev West Global Ctxt
HST 103  West and World
Select one course from:  
PHL 358  Marxist Philosophy  
PHL 370  Political Philosophy  

Select one course from:  
POL 101  Global Politics  
POL 214  Intro-Intntl Poltcs  

Select one course from:  
HST 375  US Foreign Relations  
POL 408  Amer Foreign Policy  

Select one course from:  
FRN 341  Frn Culture & Civ  
FRN 361  Survey-French Lit I  
FRN 362  Survey-French Lit II  
FRN 381  History-Frn Cinema  
FRN 450  French Literature  
FRN 452  Old Wrld Meets New  
GER 351  German Film  
GER 361  Survey of Ger Lit I  
GER 362  Survey of Ger Lit II  
GER 450  German Literature  
ITA 361  Survey-Itlan Lit I  
ITA 362  Survey-Itlan Lit II  
RUS 361  Survey-Russian Lit  
SPN 361  Survy-Spanish Lit I  
SPN 362  Survy-Spanish Lit II  
SPN 363  Surv Spn Am Lit I  
SPN 364  Surv Spn Am Lit II  
SPN 380  Spn&Ibero-Amr Cinema  
SPN 450  Spanish Literature  
SPN 451  Spn-Amer Literature  
SPN 471  TP:Spn Lit-20th Cent  
SPN 472  Spn Lit-20th Cent II  
SPN 480  Spn&Ibero-Amr Cinema  

Concentration (Cooperation and Change in the New Europe)  
HST 315  Europe 1945-Present  
POL 320  Western Europe  
POL 321  Russia&New States  

Select three courses from:  
HST 313  Europe 1815-1914  
HST 314  Europe 1890-1945  
HST 321  Modern France  
HST 322  History of England  
HST 326  Hst-Sov Un 1860-Pr  
HST 327  Natnl Cult-Sov Union  
HST 353  Hst-Wom in Eurp Soc  
POL 331  Ntlsm & Ethno Poltcs  
REL 366  The Holocaust  

Select one course from:  
PHL 352  Modern Philosophy  
PHL 353  Kant&19th Cent Phil  
PHL 354  20th Century Phil  
PHL 358  Marxist Philosophy  

Select one course from:  
PHL 360  Existentialism  
PHL 370  Political Philosophy  
POL 319  20th Cent Pol Thgt  

Select one course from:  
VAH 203  Survey of Art III  
VAH 450  Itl Renaissance Art  
VAH 480  20th Century Art I  
VAH 483  20th Century Art II  

Foreign language appropriate to concentration  

Liberal Studies Curriculum  
ASI 150  Intr to the Univ Exp  
Communication Competencies  
Creative and Performing Arts  
History  
Literature  
Mathematics (excluding MTH 102, 204, 205)  
Natural Sciences  
Philosophy and Religious Studies  
Social Sciences  

Total Hours - general education courses/academic electives to total at least 124  

1 Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.  
2 This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.  
3 May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.  
4 Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g. ROTC members) must fulfill this requirement with an internationally oriented internship.  
5 Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.  
6 Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.  
7 This course can be taken for this requirement only if not taken to fulfill the core requirement.  

Bachelor of Arts with a major in International Studies-Global Economic Development Concentration (INS)  

International Studies  
ANT 150  Cultural Anthroplogy  
ANT 306  Culture and Power  
ECO 203  Prin of Microecon  
ECO 204  Prin of Macroecon  
INS 250  INS Research Methods  


**INS 395**  Interntl Experience $^4$  1  
or **INS 495**  Interntl Internship  3  
**INS 499**  INS Senior Capstone  3  
**POL 202**  Intro Comp Politics  3  
**REL 363**  Faith & Justice  3  
Select one course from:  3  
<table>
<thead>
<tr>
<th>ASI 110</th>
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<td>HST 103</td>
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</table>
Select one course from:  3  
  | POL 101 | Global Politics |
|          | POL 214 | Intro-Intntl Poltcs |
Select one course from:  3  
  | HST 375 | US Foreign Relations |
|          | POL 408 | Amer Foreign Policy |
Select one course from: $^5$  3  
  | FRN 341 | Frn Culture & Civ |
|          | FRN 361 | Survey-French Lit I |
|          | FRN 362 | Survey-French Lit II |
|          | FRN 381 | History-Fnm Cinema |
|          | FRN 450 | French Literature |
|          | FRN 452 | Old Wld Meets New |
|          | GER 351 | German Film |
|          | GER 361 | Survey of Ger Lit I |
|          | GER 362 | Survey of Ger Lit II |
|          | GER 450 | German Literature |
|          | ITA 361 | Survey-Italn Lit I |
|          | ITA 362 | Survey-Italn Lit II |
|          | RUS 361 | Survey-Russian Lit |
|          | SPN 361 | Survy-Spanish Lit I |
|          | SPN 362 | Survy-Spanish Lit II |
|          | SPN 363 | Surv Spn Am Lit I |
|          | SPN 364 | Surv Spn Am Lit II |
|          | SPN 380 | Spn&Ibero-Amr Cinema |
|          | SPN 450 | Spanish Literature |
|          | SPN 451 | Spn-Amer Literature |
|          | SPN 471 | TP:Spn Lit-20th Cent |
|          | SPN 472 | Spn Lit-20th Cent II |
|          | SPN 480 | Spn&Ibero-Amr Cinema |

**Concentration (Global Economic Development)**  
**ANT 320**  Anthro of Childhoods  3  
**ECO 460**  Eco Develop & Growth  3  
**ECO 461**  International Econ  3  
**PHL 372**  Values & Economics  3  
**SOC 339**  Social Inequality  3  
Select one course from:  3  
  | POL 333 | Pol of Human Rights |
|          | SOC 371 | Soc of Human Rights |
Select one course from:  3  
  | PHL 355 | Asian Philosophy |

| PHL 363 | African Philosophy |
| PHL 365 | Islamic Phil & Culture |
| REL 304 | Hinduism |
| REL 305 | Eastern Orthodoxy |
| REL 306 | Buddhism |
| REL 308 | Islam |
Select one course from:  3  
  | ANT 356 | Cultures of Africa |
|          | HST 326 | Hst-Sov Un 1860-Pr |
|          | HST 330 | Hst E Asia to 1800 |
|          | HST 332 | Modern China&Japan |
|          | HST 333 | Hst of Mode Mdle East |
|          | HST 337 | Hst Afr-19th Cn-Pr |
|          | HST 354 | Hst-Women Mid East |
|          | HST 356 | Women in Third World |
|          | HST 357 | Latin Amer-20th Cen |
|          | HST 382 | History of Mexico |
|          | HST 383 | Hst of Caribbean |
|          | POL 321 | Russia&New States |

Foreign language appropriate to concentration $^6$  6  

**Liberal Studies Curriculum**  
**ASI 150**  Intr to the Univ Exp  1  
Communication Competencies  3-9  
Creative and Performing Arts  3  
History  6  
Literature  3  
Mathematics (excluding MTH 102, 204, 205)  3  
Natural Sciences  11  
Philosophy and Religious Studies  6  
Social Sciences  12  
Total Hours - general education courses/academic electives to total at least  124  

$^1$ Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.  
$^2$ This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.  
$^3$ May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.  
$^4$ Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g. ROTC members) must fulfill this requirement with an internationally oriented internship.  
$^5$ Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.  
$^6$ Must be at 300 level or above and inclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.
Bachelor of Arts with a major in International Studies-Global Environmental Sustainability Concentration (INS)

International Studies

ANT 150 Cultural Anthropology 3
ANT 306 Culture and Power 3
ECO 203 Prin of Microecon 3
ECO 204 Prin of Macroecon 3
INS 250 INS Research Methods 1
INS 395 Interntl Experience 1
or INS 495 Interntl Internship
INS 499 INS Senior Capstone 3
POL 202 Intro Comp Politics 3
REL 363 Faith & Justice 3

Select one course from:

ASI 110 Dev West Global Ctxt
HST 103 West and World

Select one course from:

PHL 358 Marxist Philosophy
PHL 370 Political Philosophy

Select one course from:

POL 101 Global Politics
POL 214 Intro-Intntl Poltics

Select one course from:

HST 375 US Foreign Relations
POL 408 Amer Foreign Policy

Select one course from: 5

FRN 341 Frn Culture & Civ
FRN 361 Survey-French Lit I
FRN 362 Survey-French Lit II
FRN 381 History-Frn Cinema
FRN 450 French Literature
FRN 452 Old Wrld Meets New
GER 351 German Film
GER 361 Survey of Ger Lit I
GER 362 Survey of Ger Lit II
GER 450 German Literature
ITA 361 Survey-Italin Lit I
ITA 362 Survey-Italin Lit II
RUS 361 Survey-Russian Lit
SPN 361 Survy-Spanish Lit I
SPN 362 Survy-Spanish Lit II
SPN 363 Surv Spn Am Lit I
SPN 364 Surv Spn Am Lit II
SPN 380 Spn&Ibero-Amr Cinema
SPN 450 Spanish Literature
SPN 451 Spn-Amer Literature
SPN 471 TP:Spn Lit-20th Cent
SPN 472 Spn Lit-20th Cent II

SPN 480 Spn&Ibero-Amr Cinema

Concentration (Global Environmental Sustainability)

ASI 320 Cities and Energy 3
ECO 435 Eco of Environment 3
ENG 342 Lit and Environment 3
HST 342 Environ Hst Americas 3
POL 371 Environmental Policy 3

Select one course from:

BIO 359 Sustainable Biosphre 7
BIO 360 Island Environ Bio 8
BIO 395 Global Envr Biology

Select one course from:

PHL 321 Environmntl Ethics
REL 365 Chr Ethics&Environ
REL 472 Ecology & Religion

Select one course from:

ANT 356 Cultures of Africa
HST 326 Hst-Sov Un 1860-Pr
HST 330 Hst E Asia to 1800
HST 332 Modern China&Japan
HST 333 Hst of Mode Mdle East
HST 337 Hst Afr-19th Cn-Pr
HST 357 Latin Amer-20th Cn
HST 382 History of Mexico
HST 383 Hst of Caribbean
POL 320 Western Europe
POL 321 Russia&New States

Foreign language appropriate to concentration 6

Liberal Studies Curriculum

ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 6
Social Sciences 12

Total Hours - general education courses/academic electives to total at least 124

1 Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2 This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3 May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
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Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.

Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.

This course counts for biology majors, but is accessible to non-majors as well.

This course is taught in Costa Rica. It counts for biology majors, but is open to non-majors as well.

Bachelor of Arts with a major in International Studies-International Journalism Concentration (INS)

International Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ANT 150</td>
<td>Cultural Anthropology</td>
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<tr>
<td>ANT 306</td>
<td>Culture and Power</td>
<td>3</td>
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<td>ECO 203</td>
<td>Prin of Microecon</td>
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<td>REL 363</td>
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<tr>
<td>PHL 358</td>
<td>Marxist Philosophy</td>
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<td>PHL 370</td>
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<tr>
<td>HST 375</td>
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<td>Amer Foreign Policy</td>
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RUS 361 Survey-Russian Lit
SPN 361 Surv-Spanish Lit I
SPN 362 Surv-Spanish Lit II
SPN 363 Surv Spn Am Lit I
SPN 364 Surv Spn Am Lit II
SPN 380 Spn&Ibero-Amr Cinema
SPN 450 Spanish Literature
SPN 451 Spn-Amer Literature
SPN 471 TP:Spn Lit-20th Cent
SPN 472 Spn Lit-20th Cent II
SPN 480 Spn&Ibero-Amr Cinema

Concentration (International Journalism)

CMM 330 Media Writing
CMM 331 Feature Writing
CMM 350 Propaganda Analysis
CMM 355 Rhetoric-Soc Movements
CMS 414 Global Communication
SOC 343 Mass Comm-Mdrn Socy

Select one course from:

ANT 356 Cultures of Africa
HST 326 Hst-Sov Un 1860-Pr
HST 330 Hst E Asia to 1800
HST 332 Modern China&Japan
HST 333 Hst of Mode Mdle East
HST 334 Hst Pal-Isrl Clct
HST 337 Hst Afr-19th Cn-Pr
HST 353 Hst-Wom in Eup Soc
HST 354 Hst-Women Mid East
HST 356 Women in Third World
HST 357 Latin Amer-20th Cen
HST 382 History of Mexico
HST 383 Hst of Caribbean
POL 320 Western Europe
POL 321 Russia&New States

Select one course from:

PHL 355 Asian Philosophy
PHL 363 African Philosophy
PHL 365 Islamic Phil & Culture
REL 304 Hinduism
REL 305 Eastern Orthodoxy
REL 306 Buddhism
REL 307 Judaism
REL 308 Islam

Foreign language appropriate to concentration

Liberal Studies Curriculum

ASI 150 Intr to the Univ Exp

Communication Competencies

Creative and Performing Arts

History

Literature

Mathematics (excluding MTH 102, 204, 205)

Natural Sciences
### Bachelor of Arts with a major in International Studies-Marianist Social Transformation Concentration (ins)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td><strong>International Studies</strong></td>
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<tr>
<td>ANT 150</td>
<td>Cultural Anthropology</td>
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<td><strong>Total Hours - general education courses/academic electives to total at least</strong></td>
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<td>124</td>
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</table>

1. Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2. This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3. May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4. Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g., ROTC members) must fulfill this requirement with an internationally oriented internship.
5. Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.
6. Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.
7. Students may substitute CMM 315, CMM 439, CMM 449, or a CMM course delivered in conjunction with a CMM summer education abroad program for one of the CMM or CMS courses when the topic has an international focus.

**Concentration (Marianist Social Transformation)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>Prf Eth Gigl Cm-Phl</td>
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<td>Prf Eth Gigl Cm-Rel</td>
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<td>PHL 363</td>
<td>African Philosophy</td>
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<tr>
<td>REL 304</td>
<td>Hinduism</td>
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<td>REL 305</td>
<td>Eastern Orthodoxy</td>
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<td>Buddhism</td>
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<tr>
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<td>Hist of Mode Medie East</td>
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<td>Hist Afr-19th Cn-Pr</td>
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<td>Hist-Wom in Eurp Soc</td>
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<td>Hist-Women Mid East</td>
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<td>Women in Third World</td>
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Foreign language appropriate to concentration 6

Liberal Studies Curriculum

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<td>Communication Competencies</td>
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<td>3-9</td>
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<td>Creative and Performing Arts</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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Bachelor of Arts with a major in International Studies-Migration Concentration (INS)

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<td>ANT 306</td>
<td>Culture and Power</td>
</tr>
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<td>ECO 203</td>
<td>Prin of Microecon</td>
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<td>ECO 204</td>
<td>Prin of Macroecon</td>
</tr>
<tr>
<td>INS 250</td>
<td>INS Research Methods</td>
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<td>INS 395</td>
<td>Internl Experience</td>
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<tr>
<td>POL 202</td>
<td>Intro Comp Politics</td>
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<tr>
<td>REL 363</td>
<td>Faith &amp; Justice</td>
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<td></td>
<td>ASI 110 Dev West Global Ctxt</td>
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<td>HST 103 West and World</td>
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<td>Select one course from:</td>
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<td></td>
<td>PHL 358 Marxist Philosophy</td>
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<td>PHL 370 Political Philosophy</td>
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<td>Select one course from:</td>
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<td></td>
<td>POL 101 Global Politics</td>
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<td>POL 214 Intro-Intrntl Poltcs</td>
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</table>

1 Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.

2 This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.

3 May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.

4 Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g., ROTC members) must fulfill this requirement with an internationally oriented internship.

5 Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.

6 Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.

7 Must be from two different disciplines.
**Concentration (Migration)**

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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<td>POL 333</td>
<td>Pol of Human Rights</td>
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<td>Racial&amp;Eth Minorities</td>
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Select one course from:

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Select two courses from:

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<td>Hst-Sov Un 1860-Pr</td>
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Foreign language appropriate to concentration

**Liberal Studies Curriculum**

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<td>Literature</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<td>Social Sciences</td>
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Total Hours - general education courses/academic electives to total at least 124

---

1. Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2. This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3. May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
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5. Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.
6. Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.

**Bachelor of Arts with a major in International Studies-Peace and Global Security Concentration (INs)**

**International Studies**

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<th>Course</th>
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<td>ECO 203</td>
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<td>INS 499</td>
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<td>POL 202</td>
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<td>REL 363</td>
<td>Faith &amp; Justice</td>
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Select one course from:

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<td>HST 103</td>
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Select one course from:

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<td>PHL 370</td>
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<td>POL 214</td>
<td>Intro-Intrnl Poltcs</td>
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<td>POL 408</td>
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<td>FRN 362</td>
<td>Survey-French Lit II</td>
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<td>FRN 381</td>
<td>History-Frn Cinema</td>
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GER 351 German Film
GER 361 Survey of Ger Lit I
GER 362 Survey of Ger Lit II
GER 450 German Literature
ITA 361 Survey-Italn Lit I
ITA 362 Survey-Italn Lit II
RUS 361 Survey-Russian Lit
SPN 361 Surv-Spanish Lit I
SPN 362 Surv-Spanish Lit II
SPN 363 Surv Spn Am Lit I
SPN 364 Surv Spn Am Lit II
SPN 380 Spn&Ibero-Amr Cinema
SPN 450 Spanish Literature
SPN 451 Spn-Amer Literature
SPN 471 TP:Spn Lit-20th Cent
SPN 472 Spn Lit-20th Cent II
SPN 480 Spn&Ibero-Amr Cinema

**Concentration (Peace and Global Security)**

ANT 320 Anthro of Childhoods 3
POL 335 US Natnl Sec Policy 3
POL 406 Internatnl Law&Organ 3
POL 452 Political Violence 3

Select one course from:

HST 349 Tech&Culture-War 3
HST 373 American Mil Hst 3

Select one course from:

PHL 317 Ethics&Modern War 3
PHL 327 Philosophy of Peace 3

Select one course from:

ANT 356 Cultures of Africa 3
HST 324 Comp Nationalism 3
HST 326 Hst-Sov Un 1860-Pr 3
HST 327 Natnl Cult-Sov Union 3
HST 332 Modern China&Japan 3
HST 333 Hst of Mode Mdle East 3
HST 334 Hst Pal-Islr Cflct 3
HST 337 Hst Aftr-19th Cn-Pr 3
HST 357 Latin Amer-20th Cen 3
POL 320 Western Europe 3
POL 321 Russia&New States 3
POL 331 Ntism & Ethno Poltics 3

Select one course from:

PHL 355 Asian Philosophy 3
PHL 363 African Philosophy 3
PHL 365 Islamic Phl& Culture 3
REL 304 Hinduism 3
REL 305 Eastern Orthodoxy 3
REL 306 Buddhism 3
REL 307 Judaism 3
REL 308 Islam 3

Foreign language appropriate to concentration 6

**Liberal Studies Curriculum**

ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 6
Social Sciences 12
Total Hours - general education courses/academic electives to total 124 at least

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**Bachelor of Arts with a major in International Studies-Women’s and Gender Issues in a Global Context Concentration (ins)**

**International Studies**

ANT 150 Cultural Anthropology 3
ANT 306 Culture and Power 3
ECO 203 Prin of Microcon 2 3
ECO 204 Prin of Macrocon 2 3
INS 250 INS Research Methods 3 1
INS 395 Intermi Experience 4 1
or INS 495 Intermi Internship 3
INS 499 INS Senior Capstone 3
POL 202 Intro Comp Politics 3
REL 363 Faith & Justice 3

Select one course from:

ASI 110 Dev West Global Ctxt 3
HST 103 West and World 3

Select one course from:

PHL 358 Marxist Philosophy 3
PHL 370 Political Philosophy 3

Select one course from:
<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>POL 101</td>
<td>Global Politics</td>
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<tr>
<td>POL 214</td>
<td>Intro-Int'ntl Poltcs</td>
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<td>HST 375</td>
<td>US Foreign Relations</td>
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<td>POL 408</td>
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<td>FRN 341</td>
<td>Frn Culture &amp; Civ</td>
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<td>FRN 361</td>
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<td>FRN 362</td>
<td>Survey-French Lit II</td>
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<tr>
<td>FRN 381</td>
<td>History-Frn Cinema</td>
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<td>FRN 450</td>
<td>French Literature</td>
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<td>FRN 452</td>
<td>Old Wrld Meets New</td>
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<td>GER 351</td>
<td>German Film</td>
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<td>GER 361</td>
<td>Survey of Ger Lit I</td>
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<td>GER 362</td>
<td>Survey of Ger Lit II</td>
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<td>GER 450</td>
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<td>SPN 472</td>
<td>Spn Lit-20th Cent II</td>
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<td>SPN 480</td>
<td>Spn&amp;Ibero-Amr Cinema</td>
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**Concentration (Women’s and Gender Issues in a Global Context)**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>WGS 150</td>
<td>Intro Wm&amp;Gndr Stdies</td>
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<tr>
<td>WGS 310</td>
<td>Fem Thry &amp; Mthd</td>
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<tr>
<td>REL 471</td>
<td>Women and Religion</td>
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<tr>
<td>REL 474</td>
<td>Women-Global Church</td>
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<tr>
<td>SOC 322</td>
<td>Sex Roles &amp; Society</td>
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<tr>
<td>SOC 332</td>
<td>Sociology of Women</td>
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<tr>
<td>SOC 339</td>
<td>Social Inequality</td>
</tr>
<tr>
<td>SOC 371</td>
<td>Soc of Human Rights</td>
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<tr>
<td>PHL 307</td>
<td>Philosophy and Women</td>
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<tr>
<td>PHL 364</td>
<td>Race, Gender&amp;Phl</td>
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<tr>
<td>HST 353</td>
<td>Hst-Wom in Eup Soc</td>
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<tr>
<td>HST 354</td>
<td>Hst-Women Mid East</td>
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<td>HST 356</td>
<td>Women in Third World</td>
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<td>ANT 356</td>
<td>Cultures of Africa</td>
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<td>HST 326</td>
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**Minor in International Studies (ins)**

**International Studies**

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<td>POL 214</td>
<td>Intro-Int'ntl Poltcs</td>
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<td>POL 320</td>
<td>Western Europe</td>
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<td>POL 321</td>
<td>Russia&amp;New States</td>
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<td>HST 330</td>
<td>Hst E Asia to 1800</td>
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<td>HST 332</td>
<td>Modern China&amp;Japan</td>
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<td>HST 333</td>
<td>Hst of Mode Mdle East</td>
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<td>HST 337</td>
<td>Hst Aftr-19th Cn-Pr</td>
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<td>HST 357</td>
<td>Latin Amer-20th Cn</td>
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<td>HST 382</td>
<td>History of Mexico</td>
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<td>HST 383</td>
<td>Hst of Caribbean</td>
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<tr>
<td>WGS 150</td>
<td>Intro Wm&amp;Gndr Stdies</td>
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**Liberal Studies Curriculum**

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<th>Course</th>
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<tr>
<td>ASI 150</td>
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<tr>
<td>WGS 150</td>
<td>Intro Wm&amp;Gndr Stdies</td>
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<tr>
<td>WGS 310</td>
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<td>HST 326</td>
<td>Hst-Sov Un 1860-Pr</td>
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</tbody>
</table>

**Total Hours - general education courses/academic electives to total at least**

1. Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2. This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3. May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course
4. Students unable to satisfy this requirement with a study abroad experience because of other commitments (e.g., ROTC members) must fulfill this requirement with an internationally oriented internship.
5. Students studying a language for which a literature, culture, or film course does not currently exist must fulfill this requirement by taking ENG 205, ENG 322, or ENG 345.

6. Must be at 300 level or above and exclusive of literature, film, or culture courses. There are currently no 300 level courses offered in Arabic or Mandarin Chinese. In these cases, students are required to complete the highest level course offered. Completion satisfies the L2 requirement.
Courses

INS 250. INS Research Methods. 1 Hour
RESEARCH METHODS - An introduction to the practice of locating aids and source materials needed to conduct research on international topics. Prerequisite(s): Permission of program director.

INS 390. Model United Nations. 1 Hour
MODEL UNITED NATIONS - 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. Prerequisite(s): Permission of instructor.

INS 395. Internl Experience. 1 Hour
INTERNATIONAL EXPERIENCE - Orientation for and evaluation of study abroad, internship, immersion, work, or service experience in an independent, organization involved in international activities, or a cross-cultural setting in the United States. Grading Option Two only.

INS 399. Independent Study. 1-3 Hours
INDEPENDENT STUDY - 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. Prerequisite(s): Permission of program director.

INS 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

INS 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

INS 495. Internl Internship. 1-6 Hours
INTERNATIONAL STUDIES INTERNSHIP - Practical, supervised experience with an approved organization dealing with international affairs. Repeatable up to six hours. Prerequisite(s): Permission of program director.

INS 499. INS Senior Capstone. 3 Hours
SENIOR CAPSTONE SEMINAR - Capstone seminar for International Studies seniors in which students integrate the academic and experiential components of their multidisciplinary degree program in a capstone research project of their own choosing. Prerequisite(s): INS 250, senior status; permission of program director.

Languages

Majors:
- Bachelor of Arts, French
- Bachelor of Arts, German
- Bachelor of Arts, Languages
- Bachelor of Arts, Spanish

Minors:
- French
- German
- Italian
- Spanish

The Department of Languages offers instruction in Arabic, Chinese (Mandarin), French, German, Italian, Latin, Russian, and Spanish and thus brings a distinctively 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:

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>CLA 350</td>
<td>Classcl Lit-Transln</td>
<td>3</td>
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<tr>
<td>FRN 350</td>
<td>French Lit In Trns</td>
<td>3</td>
</tr>
<tr>
<td>FRN 352</td>
<td>Old World&amp;New (ENG)</td>
<td>3</td>
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<tr>
<td>GER 350</td>
<td>German Lit In Trns</td>
<td>3</td>
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<tr>
<td>GER 351</td>
<td>German Film</td>
<td>3</td>
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<td>HMS 360</td>
<td>Latin Amer Tru Lit</td>
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<td>SPN 350</td>
<td>Hispnic Lit In Trans</td>
<td>3</td>
</tr>
<tr>
<td>SPN 380</td>
<td>Spn&amp;Ibero-Amr Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

Each summer, the Department of Languages conducts one-month language-immersion study programs in China, France, Germany, Italy, and Latin America or Spain (alternate years). Participants in these programs can earn up to seven semester hours of language credit.

Students in B.A. programs can acquire teacher licensure in French, German, or Spanish through the E6 or E11A programs (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 three or higher on the Advanced Placement language examinations.

Students may choose a major (twenty-five 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

Francisco Peñas-Bermejo, Chairperson
Professors Emeriti: Chiodo, Conard, O’Meara, Romaguera
University of Dayton

Professors: Castro, Peñas-Bermejo
Visiting Professor: Wang
Associate Professors: Espinoza, Krugh, Mosher
Assistant Professors: Costales, Ventura, Villa, Work
Lecturers: Figueroa, Schelhammer, Tanova, Tello-Sánchez, Williams

Bachelor of Arts with a major in French (frn)

French 1
FRN 311 French Conversation I 3
or FRN 312 French Conversation II
FRN 321 French Composition I 3
or FRN 322 French Composition II
LNG 495 Lang in Careers 1
Select two courses from (at least one must be in literature): 6
FRN 341 French Culture & Civ
FRN 360 Explication De Textes
FRN 361 Survey-French Lit I
FRN 362 Survey-French Lit II
FRN 381 History-French Cinema
FRN 450 French Literature
FRN 452 Old World Meets New

Select four FRN electives (300/400 level) 1 12

Liberal Studies Curriculum
ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1 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.

Bachelor of Arts with a major in German (ger)

German
GER 311 German Conversation I 3
or GER 312 German Conversation II
GER 321 German Composition I 3
or GER 322 German Composition II
LNG 495 Lang in Careers 1
Select two courses from (at least one must be in literature): 6
GER 341 German Culture & Civ
GER 361 Survey of Ger Lit I
GER 362 Survey of Ger Lit II
GER 450 German Literature
Select four GER electives (300/400 level) 1 12

Liberal Studies Curriculum
ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1 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.

Bachelor of Arts with a major in Languages (lng)

Languages 1
LNG 495 Lang in Careers 1
Composite major in Language 2 24

Liberal Studies Curriculum
ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1 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)

Spanish
LNG 495 Lang in Careers 1
SPN 311 Span Conversation I 3
or SPN 312 Span Conversation II
SPN 321 Span Composition I 3
or SPN 322 Span Composition II
Select two courses from (at least one must be in literature): 6
SPN 341 Spanish Cult & Civ
SPN 342 Ibero-American Cult & Civ
SPN 361 Survey-Spanish Lit I
SPN 362 Survey-Spanish Lit II
SPN 363  Surv Spn Am Lit I
SPN 364  Surv Spn Am Lit II
SPN 450  Spanish Literature
SPN 451  Spn-Amer Literature
SPN 471  TP:Spn Lit-20th Cent
SPN 472  Spn Lit-20th Cent II
SPN Electives 1  12

Liberal Studies Curriculum
ASI 150  Intr to the Univ Exp  1
Communication Competencies  3-9
Creative and Performing Arts  3
History  6
Mathematics (excluding MTH 102, 204, 205)  3
Natural Sciences  11
Philosophy and Religious Studies  12
Social Sciences  12
Total Hours - general education courses/academic electives to total 124

1 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)
French
Select four FRN courses (300/400 level)  12
Total Hours  12

Minor in German (ger)
German
Select four GER courses (300/400 level)  12
Total Hours  12

Minor in Italian (ita)
Italian
Select four ITA courses (300/400 level)  12
Total Hours  12

Minor in Spanish (spn)
Spanish
Select four SPN courses (300/400 level)  12
Total Hours  12

Arabic Courses
ARA 101. Basic Profncy ARA I. 4 Hours
BASIC PROFICIENCY IN ARABIC I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Arabic or have placed in this course by examination.

ARA 201. Intermed ARA I. 4 Hours
INTERMEDIATE ARABIC I - Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): ARA 101 or placement by examination.

ARA 202. Intermed ARA II. 4 Hours
INTERMEDIATE ARABIC II - Continued development of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Prerequisite(s): ARA 201 or placement by examination.

Chinese Courses
CHI 101. Basic Profncy CHI I. 4 Hours
BASIC PROFICIENCY IN MANDARIN CHINESE I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Mandarin Chinese or have placed into this course by examination.

CHI 141. Basic Profncy CHI II. 4 Hours
BASIC PROFICIENCY IN MANDARIN CHINESE II - Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): CHI 101 or placement by examination.

CHI 170. Study Abroad. 3 Hours
STUDY ABROAD - Study in a foreign country/region whose everyday language is Chinese, focusing on the culture and civilization of the country. Conducted in English. Available only during the summer session. Repeatable when topic and content change. Prerequisite(s): CHI 101 (may be taken as a corequisite).

CHI 201. Intermed CHI I. 4 Hours
INTERMEDIATE MANDARIN CHINESE I - Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): CHI 141 or placement by examination.

CHI 202. Intermed CHI II. 4 Hours
INTERMEDIATE MANDARIN CHINESE II - Continued development of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. Prerequisite(s): CHI 201 or placement by examination.
French Courses

FRN 101. Basic Profncy FRN I. 4 Hours
BASIC PROFICIENCY IN FRENCH - I Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied French or have placed into this course by examination.

FRN 131. Intnsl Fundmntl FRN. 2 Hours
INTENSIVE FUNDAMENTAL FRENCH - Intensive development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: FRN 101 or FRN 131.

FRN 141. Basic Profncy Fnrn II. 4 Hours
BASIC PROFICIENCY IN FRENCH - II Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (FRN 101 or FRN 131) or placement by examination.

FRN 201. Interm French I. 3 Hours
INTERMEDIATE FRENCH I - Development of reading, listening, writing, and speaking skills. Language laboratory required. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences’ Liberal Studies Curriculum. Prerequisite(s): FRN 141.

FRN 202. Interm French II. 3 Hours
INTERMEDIATE FRENCH II - Development of reading, listening, writing, and speaking skills. Language laboratory required. Prerequisite(s): FRN 201.

FRN 270. Intern Study Abroad. 1-7 Hours
INTERMEDIATE STUDY ABROAD - 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. Prerequisite(s): FRN 141 or equivalent.

FRN 311. French Conversatn I. 3 Hours
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. Fnrh Conversatn II. 3 Hours
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 370. Adv Study Abroad. 1-7 Hours
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-Frnc Cinema. 3 Hours
HISTORY OF FRENCH CINEMA - 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 FRN 312.

FRN 450. French Literature. 3 Hours
FRENCH LITERATURE - Lectures and discussion concentrating on specialized genres, periods, or authors. Repeatable when subtitle and content change. Prerequisite(s): FRN 311 or FRN 312.

FRN 452. Old Wrld Meets New. 3 Hours
OLD WORLD MEETS NEW (FRN) - Readings of (1) non-fictional narratives regarding French encounters with American Indians in the sixteenth and seventeenth centuries and (2) literary and philosophical works on this topic. Conducted in French. Students receive credit for either FRN 352 or FRN 452, not both. Prerequisite(s): FRN 311 or FRN 312.

FRN 469. French Linguistics. 3 Hours
FRENCH LINGUISTICS - Synchronous 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-speaking persons. Conducted in French. Prerequisite(s): (FRN 311 or FRN 312); LNG 468.

FRN 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

FRN 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

FRN 491. Independent Study. 1-3 Hours
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 of department chairperson.

German Courses

GER 101. Basic Profncy GER I. 4 Hours
BASIC PROFICIENCY IN GERMAN I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied German or have placed into this course by examination.

GER 131. Intnsve Fundmntl Ger. 2 Hours
INTENSIVE FUNDAMENTAL GERMAN - 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 GER 115 or permission of instructor.

GER 141. Basic Profncy GER II. 4 Hours
BASIC PROFICIENCY IN GERMAN II - Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (GER 101 or GER 131) or placement by examination.

GER 201. Intermed German I. 3 Hours
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. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): GER 141.

GER 202. Intermed German II. 3 Hours
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. Ger Conversation I. 3 Hours
GERMAN CONVERSATION I - Practice to increase listening comprehension and fluency in speaking about topics from the personal and everyday to issues of current interest with focus on describing and narrating in paragraph-length structures. In-depth exploration of cultural commonalities and differences between the German-speaking countries and the United States. Focus on development of vocabulary and practice of expressions essential for oral communication. May be taken in either sequence. Prerequisite(s): GER 202.

GER 312. Ger Conversation II. 3 Hours
GERMAN CONVERSATION II - Practice to increase listening comprehension and fluency in speaking about topics from the personal and everyday to issues of current interest with focus on describing and narrating in paragraph-length structures. In-depth exploration of cultural commonalities and differences between the German-speaking countries and the United States. Focus on development of vocabulary and practice of expressions essential for oral communication. May be taken in either sequence. Prerequisite(s): GER 202.

GER 321. Ger Composition I. 3 Hours
GERMAN COMPOSITION I - Practice in personal and topical writing in German that seeks to develop the ability to write well-structured paragraphs. Systematic vocabulary building and grammatical refinement and review. Readings on key issues of the day and/or topics providing crucial insight into German and European thinking and concerns. May be taken in either sequence. Prerequisite(s): GER 311 or GER 312.
GER 322. Ger Composition II. 3 Hours
GERMAN COMPOSITION II - Practice in personal and topical writing in German that seeks to develop the ability to write well-structured paragraphs. Systematic vocabulary building and grammatical refinement and review. Readings on key issues of the day and/or topics providing crucial insight into German and European thinking and concerns. May be taken in either sequence. Prerequisite(s): GER 311 or GER 312.

GER 325. Commercial German. 3 Hours
COMMERCIAL GERMAN - Introduction to the business language, customs, and economic profile of the German-speaking countries. Vocabulary of the office and world of trade. Business correspondence. Germany’s economic and cultural position and goals within the context of the European Union and the world. Course provides an introduction to working in an international business setting. Prerequisite(s): GER 311 or GER 312 or equivalent.

GER 341. Ger Culture&Civilzn. 3 Hours
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 GER 312.

GER 350. German Lit In Trns. 3 Hours
GERMAN LITERATURE IN TRANSLATION - Course to acquaint students with major German writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

GER 351. German Film. 3 Hours
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, postcolonialization, nationalism, social theory, ideology, and political activism. Prerequisite(s): GER 311 or GER 312.

GER 361. Survey of Ger Lit I. 3 Hours
SURVEY OF GERMAN LITERATURE I - German literary works from 1750 to the present reflecting the philosophy, aesthetics, and concerns of the time. Skills development for reading literary and cultural texts and writing on analytic and interpretative topics. May be taken in either sequence. Prerequisite(s): ((GER 311 or GER 312); (GER 321 or GER 322)) or equivalent.

GER 362. Survey of Ger Lit II. 3 Hours
SURVEY OF GERMAN LITERATURE II - German literary works from 1750 to the present reflecting the philosophy, aesthetics, and concerns of the time. Skills development for reading literary and cultural texts and writing on analytic and interpretative topics. May be taken in either sequence. Prerequisite(s): ((GER 311 or GER 312); (GER 321 or GER 322)) or equivalent.

GER 370. Study Abroad. 1-6 Hours
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. 3 Hours
GERMAN LITERATURE - Lectures and discussions in German in such specialized areas as Medieval lyric, Romanticism, twentieth-century novel, modern drama, and individual authors. Repeatable when subtitle and content change. Prerequisite(s): GER 311 or GER 312.

GER 469. German Linguistics. 3 Hours
GERMAN LINGUISTICS - 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 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

GER 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

GER 491. Independent Study. 1-3 Hours
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): GER 202; permission of instructor.

Hindi Courses
HND 101. Beginning Hindi I. 3 Hours
BEGINNING HINDI I - Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to HND 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, HND 102 or HND 121.

HND 102. Beginning Hindi II. 3 Hours
BEGINNING HINDI II - Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to HND 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, HND 102 or HND 121.
HND 121. Elementary Hindi. 4 Hours
ELEMENTARY HINDI - 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 and place into the course by examination. Offered only in India in connection with the B.A. Program in Philosophy. Credit granted for only one of the following: HND 101 and HND 102 or HND 121.

HND 141. Basic Proficiency Hindi. 3 Hours
BASIC PROFICIENCY IN HINDI - Further development of communication skills in reading, listening, writing, and speaking. Admission by examination or successful completion of HND 102 or HND 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. Offered only in India in connection with the B.A. Program in Philosophy.

HND 201. Intermediate Hindi I. 3 Hours
INTERMEDIATE HINDI I - Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern prose and poetry; brief essays in Hindi. Offered only in India in connection with the B.A. Program in Philosophy. Prerequisite(s): HND 141; previous study of elementary Hindi in school or elsewhere; ability to speak, read, understand, and write simple Hindi.

HND 202. Intermediate Hindi II. 3 Hours
INTERMEDIATE HINDI II - Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern prose and poetry; brief essays in Hindi. Offered only in India in connection with the B.A. Program in Philosophy. Prerequisite(s): HND 201.

Italian Courses

ITA 101. Basic Prfncy ITA I. 4 Hours
BEGINNING ITALIAN I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Italian or have placed into this course by examination.

ITA 141. Basic Prfncy ITA II. 4 Hours
BASIC PROFICIENCY IN ITALIAN - Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): ITA 101 or placement by examination.

ITA 170. Study Abroad. 3 Hours
STUDY ABROAD - Study in a foreign country/region whose everyday language is Italian, focusing on the culture and civilization of the country. Conducted in English. Available only during the summer session. Repeatable when topic and content change. Prerequisite(s): ITA 101 (may be taken as a corequisite).

ITA 201. Intermediate ITA I. 3 Hours
INTERMEDIATE ITALIAN I - Development of reading, listening, writing, and speaking skills. Conversation practice, oral reports, reading assignments, composition assignments, and grammar exercises. The course is conducted in Italian. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): ITA 141.

ITA 202. Intermediate II. 3 Hours
INTERMEDIATE ITALIAN II - Development of reading, listening, writing, and speaking skills. Conversation practice, oral reports, reading assignments, composition assignments, and grammar exercises. The course is conducted in Italian. Prerequisite(s): ITA 201.

ITA 313. Communicating-Ita I. 3 Hours
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 course is conducted in Italian. ITA 313 and 314 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 314. Communicating-Ita II. 3 Hours
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 course is conducted in Italian. ITA 313 and 314 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 341. Ital CultCivilzn I. 3 Hours
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 and 342 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 361. Survey-Ital Lit I. 3 Hours
SURVEY OF ITALIAN LITERATURE I - Italian literature from its beginnings in the thirteenth century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 and ITA 362 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 362. Survey-Ital Lit II. 3 Hours
SURVEY OF ITALIAN LITERATURE II - Italian literature from its beginnings in the thirteenth century to the present. Principal writers and literary trends; the techniques of literary analysis. Lectures, discussions, readings, and papers are in Italian. ITA 361 and ITA 362 may be taken in either sequence. Prerequisite(s): ITA 202.

ITA 491. Independent Study. 1-3 Hours
STUDY ABROAD - Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Prerequisite(s): ITA 202 or permission of instructor.

Languages Courses

LNG 101. Beg Language Study. 4 Hours
BEGINNING LANGUAGE STUDY - Development of fundamental communication skills in reading, listening, writing, and speaking with a focus on basic proficiency in survival communication, and familiarization with culture in languages other than those regularly taught in the Department of Languages. May be offered through distance learning or study abroad with the support of the Department of Languages. No previous study of the language is presupposed (for LNG 101 only). Offered with different suffixes according to the language studied.
LNG 141. Basic Profcy Lang. 4 Hours
BASIC PROFICIENCY IN LANGUAGE - Further development of communication skills in reading, listening, writing, and speaking with a focus on basic proficiency in survival communication, and familiarization with culture in languages other than those regularly taught in the Department of Languages. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 101 in the same language or equivalent.

LNG 201. Intermed Lang I. 4 Hours
INTERMEDIATE LANGUAGE I - Expansion and extension of listening, speaking, reading, and writing skills through conversation practice, reading assignments, composition assignments, and grammar exercises. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 141 in the same language or equivalent.

LNG 202. Intermed Lang II. 4 Hours
INTERMEDIATE LANGUAGE II - Continued development of proficiency in listening, speaking, reading and writing through conversation practice, reading assignments, composition assignments, and grammar exercises. Offered with different suffixes according to the language studied. Prerequisite(s): LNG 201 in the same language or equivalent.

LNG 320. Instruct 2nd Lang Acqstn. 2 Hours
INSTRUCTED SECOND LANGUAGE ACQUISITION - Study of cognitive, linguistic, sociolinguistic, and constructivist approaches to instructed second language acquisition, including the relationship between classroom interaction and language acquisition.

LNG 330. Tch Wrld Lng-Elm Sch(PK-6). 4 Hours
TEACHING WORLD LANGUAGES IN THE ELEMENTARY SCHOOL (PK-6) - An introduction to the pedagogical, philosophical, and psychological aspects of teaching foreign languages in elementary school. Topics: national and state standards, learners with special needs, reading in the foreign language, and professional associations. Prerequisite(s): EDT 110; at least two 300-level courses in the language to be taught.

LNG 468. Intro Linguistics. 3 Hours
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 110 or equivalent; ENG 102 or equivalent.

LNG 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

LNG 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

Latin Courses

LAT 101. Basic Profncy LAT I. 4 Hours
BASIC PROFICIENCY IN LATIN I - Development of basic skills in reading, listening, and writing through extensive practice in language use. Admission is restricted to those who have not studied Latin or have placed into this course by examination.

LAT 131. Intnsve Fundmntl LAT. 2 Hours
INTENSIVE FUNDAMENTAL LATIN - Intensive development of fundamental skills in reading, listening, and writing through extensive practice in language use. Admission is restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: LAT 101 or LAT 131.

LAT 141. Basic Profcy LAT II. 4 Hours
BASIC PROFICIENCY IN LATIN II - Further development of fundamental skills in reading, listening, and writing through extensive practice in language use. Prerequisite(s): (LAT 101 or LAT 131) or placement by examination.

LAT 201. Internm Lat I. 3 Hours
INTERMEDIATE LATIN I - Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): LAT 141.

LAT 202. Internm Lat II. 3 Hours
INTERMEDIATE LATIN II - Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid. Prerequisite(s): LAT 201.

LAT 321. Latin Comp & Syntax. 3 Hours
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.
Russian Courses

RUS 101. Basic Proficiency in Russian I. 4 Hours
BASIC PROFICIENCY IN RUSSIAN I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Russian or have placed into this course by examination. Prerequisite(s): RUS 101 or placement by examination.

RUS 141. Basic Proficiency in Russian II. 4 Hours
BASIC PROFICIENCY IN RUSSIAN II - Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): RUS 141.

RUS 201. Intermediate Russian I. 3 Hours
INTERMEDIATE RUSSIAN I - Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): RUS 201.

RUS 202. Intermediate Russian II. 3 Hours
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. Rus Conversation I. 3 Hours
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 and 312 may be taken in either sequence. Prerequisite(s): RUS 201.

RUS 312. Rus Conversation II. 3 Hours
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 and RUS 312 may be taken in either sequence. Prerequisite(s): RUS 201.

RUS 321. Rus Composition. 3 Hours
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-Russian Lit. 3 Hours
SURVEY OF RUSSIAN LITERATURE - Russian literature and its development during the nineteenth and twentieth centuries. Study of exemplary works and literary movements. Prerequisite(s): RUS 202.

RUS 491. Independent Study. 1-6 Hours
INDEPENDENT STUDY - Independent study under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson. Repeatable when content changes.

Spanish Courses

SPN 101. Basic Proficiency in Spanish I. 4 Hours
BASIC PROFICIENCY IN SPANISH I - Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Spanish or have placed into this course by examination.

SPN 131. Intensive Fundamental Spanish. 2 Hours
INTENSIVE FUNDAMENTAL SPANISH - Intensive development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission restricted to those who have previous experience with the language and place into this course by examination. Credit granted for only ONE of the following: SPN 101 or SPN 131.

SPN 141. Basic Proficiency in Spanish II. 4 Hours
BASIC PROFICIENCY IN SPANISH II - Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Prerequisite(s): (SPN 101 or SPN 131) or placement by examination.

SPN 201. Intermediate Spanish I. 3 Hours
INTERMEDIATE SPANISH I - Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. Prerequisite(s): SPN 141.

SPN 202. Intermediate Spanish II. 3 Hours
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. 1-6 Hours
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 311. Spn Conversation I. 3 Hours
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 Spanish world. Prerequisite(s): SPN 202.

SPN 312. Spn Conversation II. 3 Hours
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. Spn Composition I. 3 Hours
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 SPN 312.

SPN 322. Spn Composition II. 3 Hours
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 Hours
COMMERCIAL SPANISH - Introduction to commercial correspondence as a basis for developing skills in writing Spanish business letters and other correspondence. Prerequisite(s): SPN 311 or SPN 312.

SPN 341. Spanish Cult& Civ. 3 Hours
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 SPN 312.

SPN 342. Ibero-Amer Cult & Civ. 3 Hours
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 SPN 312.

SPN 350. Hispnc Lit In Trans. 3 Hours
HISPANIC LITERATURE IN TRANSLATION - Course to acquaint students with major Spanish and Spanish-American writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

SPN 361. Survy-Spanish Lit I. 3 Hours
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 twentieth century. Lectures, discussions, and assignments in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 362. Survy-Spanish Lit II. 3 Hours
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 twentieth century. Lectures, discussions, and assignments in Spanish. Prerequisite(s): SPN 311 or SPN 312.

SPN 363. Surv Spn Am Lit I. 3 Hours
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 SPN 312.

SPN 364. Surv Spn Am Lit II. 3 Hours
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 SPN 312.

SPN 370. Study Abroad. 1-6 Hours
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. Spn&Ibero-Amr Cinema. 3 Hours
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 440. SPN Sociolinguistics. 3 Hours
SPANISH SOCIOLINGUISTICS - Analysis of the interrelations between linguistic practices and ideas in the Spanish-speaking world and the social contexts in which they develop. Topics examined include language contact, minority languages, and human rights; language policy and education planning; socially conditioned variation according to gender, class, and ethnicity; and linguistic ideologies and identities in Spain and Latin America. Conducted in Spanish. Prerequisite(s): SPN 321 or permission of department chairperson.

SPN 450. Spanish Literature. 3 Hours
TOPICS IN SPANISH LITERATURE - Lectures and discussions concentrating on specialized genres, periods, or authors of Peninsular literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 451. Spn-Amer Literature. 3 Hours
TOPICS IN SPANISH-AMERICAN LITERATURE - Lectures and discussions concentrating on specialized genres, periods, or authors of Spanish-American literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 469. Spanish Linguistics. 3 Hours
SPANISH LINGUISTICS - 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 SPN 312).

SPN 471. TP:Spn Lit-20th Cent. 3 Hours
TOPICS IN SPANISH LITERATURE OF THE TWENTIETH CENTURY - Lectures and discussions concentrating on specialized periods, genres, or authors of twentieth-century Peninsular literature. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.

SPN 472. Spn Lit-20th Cent Ii. 3 Hours
TOPICS IN SPANISH-AMERICAN LITERATURE OF THE TWENTIETH CENTURY - Lectures and discussions concentrating on specialized periods, genres or authors of twentieth-century Spanish-American literature. Conducted in Spanish. Repeatable when subtitle and content change. Prerequisite(s): SPN 311 or SPN 312.
Minor in Marianist Social Transformation (MST)

**Marianist Social Transformation**

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>MST 210</td>
<td>Spokane Catholic Trad</td>
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<td>MST 310</td>
<td>Read Signs Time</td>
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<td>or MST 311</td>
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<tr>
<td>or MST 312</td>
<td>Reading-Signs-Times</td>
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Select one course from: 3

- ASI 358  Christyn, Ctzsp & Socy
- HST 372  Hst-Rel in US
- PHL 327  Philosophy of Peace
- PHL 356  Christian Philosophy
- REL 363  Faith & Justice

Select two courses from two different disciplines: 6

- ASI 357  Vocation & the Arts
- ASI 371  Prf Eth Glig Cm-Bus
- ASI 372  Prf Eth Glig Cm-Edu
- ASI 373  Prf Eth Glig Cm-Egr
- ASI 374  Prf Eth Glig Cm-Phl
- ASI 375  Prf Eth Glig Cm-Rel
- EGR 330  Engr Dsgn & Appr Techq
- ENG 323  Lit-Christn Tradtn
- ENG 384  Chrstrty & Mod Poetry
- HST 305  Medieval Europe
- HST 307  Renaissance & Reformtn
- HST 311  Old Regime Europe
- HST 313  Europe 1815-1914
- HST 358  Soc & Cult Hst-Lat Am
- MUS 301  Mus Hist & Lit I
- MUS 305  Afric Amer Sac Mus
- MUS 350  Sacred Music Hst
- MUS 452  Contemp Litgcl Mus Rep
- PHL 307  Philosophy and Women
- PHL 311  Phil of Religion
- PHL 312  Ethics
- PHL 313  Business Ethics
- PHL 315  Medical Ethics
- PHL 316  Engineering Ethics
- PHL 319  Information Ethics
- PHL 351  Medieval Philosophy
- PHL 360  Existentialism
- POL 333  Pol of Human Rights
- POL 426  Ldrshp-Communities
- PSY 451  PSY of Religion
- REL 323  Hst-Christianity I
- REL 324  Hst-Christianity II
- REL 358  Liberation Theology
- REL 367  Chr Ethics & Hlth Care
- REL 368  Chr Ethics & Bus World
- REL 369  Chrtn Ethics & Engr
- REL 471  Women and Religion
- REL 474  Women-Global Church

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**Marianist Social Transformation**

The minor in Marianist social transformation offers an interdisciplinary approach to Catholic, Marianist, and Christian studies. The program allows the student to utilize the rich resources in service, teaching, and research at the University of Dayton in order to explore and investigate those topics and issues that lie at the heart of the University. Open to all, participants will benefit from the two-hundred year Marianist experiment in the professions and higher education. Through its courses and activities, the minor prepares distinctive graduates to carry out social transformation based upon an understanding of Catholic and Christian contributions to the arts, sciences, and the professions.

**Marianist Studies Committee**

Maura S. Donahue (Religious Studies), Coordinator
Cadegan (History), Ensalaco (Political Science), Fitz (Ferree Professor in Social Justice), Inglis (Philosophy), K. Johnson (Religious Studies), McGrath (Religious Studies), Portier (Spearin Chair), Trollinger (History), Zukowski (Institute for Pastoral Initiatives)
For example, prospective secondary mathematics teachers should participate in the licensure program and elect courses such as MTH 370, MTH 395, and MTH 466. Students with an interest in business, law, or social science should complete the probability and statistics sequence MTH 411-MTH 412.

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, MTH 404, and MTH 471. Those planning on pursuing an actuarial career should take the actuarial science minor described below. To prepare for using mathematics in an applied context, some useful elective courses are MTH 403, MTH 404, and the MTH 411-MTH 412 sequence. All students pursuing a bachelor of science in mathematics are required to complete a minor in another subject.

The basic courses are offered every term:

- MTH 168 Anly Geom & Calc I 4
- MTH 169 Anly Geom & Calc II 4
- MTH 218 Anly Geom & Calc III 4
- MTH 219 Appl Diff Equations 3
- MTH 308 Fndtn & Discrete Mth 3
- MTH 310 Lin Alg & Matrices 3

Most majors will take MTH 218 and MTH 308 in the same term.

The required core courses are offered at least once a year:

- MTH 330 Intermed Analysis 3
- MTH 361 Intro-Abstract Algbra 3
- MTH 411 Probability & Stat I 3
- MTH 430 Real Analysis 3

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).

A minor in actuarial science is offered through the Department of Mathematics. This consists of courses in calculus, statistics, theory of interest, economics, and finance, and is designed to prepare the student to take the actuarial examinations in probability and financial mathematics.

**Courses**

**MST 210. Spkrs Cath Socl Trad. 1 Hour**

SPEAKERS ON CATHOLIC SOCIAL TRADITION - Introduction to contemporary Marianist, Catholic, and Christian social issues as reflected in presentations made on campus by significant outside speakers. Study and discussion of texts in order to meet and evaluate speakers.

**MST 310. Read Signs Time. 3 Hours**

READING THE SIGNS OF THE TIMES - An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the Historical Study domain will be emphasized. This course is cross-listed with MST 311 and MST 312 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

**MST 311. Read Signs Time. 3 Hours**

READING THE SIGNS OF THE TIMES - An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the domain of Philosophy will be emphasized. This course is cross-listed with MST 310 and MST 312 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

**MST 312. Reading-Signs-Times. 3 Hours**

READING THE SIGNS OF THE TIMES - An integrated interdisciplinary exploration of local needs in light of Catholic social tradition and Marianist educational philosophy. In the process of this integrated analysis, the domain of Religious Studies will be emphasized. This course is cross-listed with MST 310 and MST 311 and is the capstone for the minor. Prerequisite(s): MST 210; three courses in minor.

**Mathematics**

Majors:

- Bachelor of Arts, Mathematics
- Bachelor of Science, Applied Mathematical Economics
- Bachelor of Science, Mathematics

Minors:

- Actuarial Science
- Mathematics

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, MTH 395, and MTH 466. Students with an interest in business, law, or social science should complete the probability and statistics sequence MTH 411-MTH 412.

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, MTH 404, and MTH 471. Those planning on pursuing an actuarial career should take the actuarial science minor described below. To prepare for using mathematics in an applied context, some useful elective courses are MTH 403, MTH 404, and the MTH 411-MTH 412 sequence. All students pursuing a bachelor of science in mathematics are required to complete a minor in another subject.

The basic courses are offered every term:

- MTH 168 Anly Geom & Calc I 4
- MTH 169 Anly Geom & Calc II 4
- MTH 218 Anly Geom & Calc III 4
- MTH 219 Appl Diff Equations 3
- MTH 308 Fndtn & Discrete Mth 3
- MTH 310 Lin Alg & Matrices 3

Most majors will take MTH 218 and MTH 308 in the same term.

The required core courses are offered at least once a year:

- MTH 330 Intermed Analysis 3
- MTH 361 Intro-Abstract Algbra 3
- MTH 411 Probability & Stat I 3
- MTH 430 Real Analysis 3

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.

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**Faculty**

Joe D. Mashburn, Chairperson
Distinguished Service Professor: Peterson
Professors Emeriti: Back, Friel, Gantner, Kauflin, McCluskey, Mushenheimer, Rice, Schleppi, Shaughnessy, R. Steinlage, Strange
Professors: Elloe, Higgins, Islam, Mashburn, Raffoul
Associate Professors: Abueida, Busch, Diestelkamp, Driskell, Gorton, Hovey, Krakowski, Liu
Assistant Professors: Keen, Qumsiyeh, Usman, Yengula
Bachelor of Arts with a major in Mathematics (mth)

Mathematics

MTH 168    Anly Geom & Calc I  4
MTH 169    Anly Geom & Calc II  4
MTH 218    Anly Geom & Calc III  4
MTH 308    Fndtn & Discrete Mth  3
MTH 310    Lin Alg & Matrices  3
MTH 330    Intermed Analysis  3
MTH 361    Intro-Abstrct Algbra  3
MTH 411    Probability & Stat I  3
Select three MTH electives (300/400 level)  9

Liberal Studies Curriculum

ASI 150    Intr to the Univ Exp  1
Communication Competencies  3-9
Creative and Performing Arts  3
History  6
L2 Proficiency (Proficiency in a language other than English)  0-11
 Literature  3
Natural Sciences  11
Philosophy and Religious Studies  12
Social Sciences  12
Total Hours - general education courses/academic electives to total at least  124

Bachelor of Science with a major in Applied Mathematical Economics (mte)

Economics

ECO 203    Prin of Microecon  3
ECO 204    Prin of Macroecon  3
ECO 346    Intrmd MicroEco Anly  3
ECO 347    Intrmd MacroEco Anly  3
ECO 441    Econometrics  3
Select one ECO elective (300/400 level)  3

Mathematics

MTH 168    Anly Geom & Calc I  4
MTH 169    Anly Geom & Calc II  4
MTH 218    Anly Geom & Calc III  4
MTH 308    Fndtn & Discrete Mth  3
MTH 310    Lin Alg & Matrices  3
MTH 330    Intermed Analysis  3
MTH 411    Probability & Stat I  3
MTH 412    Probability & Stat II  3
Select four MTH electives (300/400 level)  12

Breadth Requirements

ASI 150    Intr to the Univ Exp  1
CPS 132    Prgrammng-Engr & Sci  3
or CPS 150    Algoritm&Progrm I  3
Select one natural sciences group from:  8

Biology

BIO 152    and Concepts of Bio II  3
BIO 152L    and Concepts-Bio Lab II  3

Chemistry

CHM 123    General Chemistry & 123L and Gen Chemistry Lab
CHM 124    and General Chemistry  3
CHM 124L    and Gen Chemistry Lab  3

Geology

GEO 115    Physical Geology & 115L and Physical Geology Lab
GEO 116    and Geolcl Hst-Earth  3
GEO 116L    and Geolcl Hst-Earth Lab  3

Physics

PHY 206    Gen Physics I Mech & PHY 207 and Gen Phy II Ele & Mag
PHY 210L    and Gen Physics Lab I  3
PHY 211L    and Gen Physics Lab II  3

Total Hours - general education courses/academic electives to total at least  120
MTH 102. Fundamentals of Math. 3 Hours
FUNDAMENTALS OF MATH - Sets, functions and graphs, exponents, polynomials and algebraic equations, systems of equations. Prerequisite(s): One year of high school algebra.

MTH 114. Contemporary Math. 3 Hours
CONTEMPORARY MATH - Study of contemporary mathematical topics and their applications. Topics may include management science, statistics, social choice, size and shape, and computer mathematics. Prerequisite(s): Two years of high school algebra.

MTH 116. Precalculus Math. 4 Hours
PRECALCULUS MATH - Review of topics from algebra and trigonometry including polynomials, functions and graphs, exponential and logarithmic functions, trigonometric functions and identities. Prerequisite(s): Two years of high school algebra.

MTH 128. Finite Math. 3 Hours
FINITE MATHEMATICS - 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. Prerequisite(s): MTH 102 or sufficient college preparatory mathematics.

MTH 129. Calc for Business. 3 Hours
CALCULUS FOR BUSINESS - Topics from differential and integral calculus used in business; applications to optimizing financial functions, marginal functions in economics, and consumer or producer surplus. Prerequisite(s): MTH 128 or sufficient college preparatory mathematics.

MTH 137. Calc I with Review. 4 Hours
CALCULUS I WITH REVIEW - 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. Prerequisite(s): Two years of high school algebra.

MTH 138. Calc I with Review. 4 Hours
CALCULUS I WITH REVIEW - 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. Prerequisite(s): MTH 137.

MTH 148. Introductory Calc I. 3 Hours
INTRODUCTORY CALCULUS I - 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 Calc II. 3 Hours
INTRODUCTORY CALCULUS II - Continuation of MTH 148. Multivariable calculus, matrices, difference equations, probability, discrete and continuous random variables, and differential equations with applications to the life and social sciences. Prerequisite(s): MTH 138 or MTH 148.

MTH 168. Anly Geom & Calc I. 4 Hours
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 168. Any Geom & Calc II. 4 Hours
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 MTH 168.

MTH 204. Math Concepts I. 3 Hours
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. Math Concepts II. 3 Hours
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 207. Intro to Statistics. 3 Hours
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. Math Concepts for MS. 3 Hours
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. Prerequisite(s): Two years of high school algebra.

MTH 215. Alg.Funcs&Graphs. 3 Hours
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. Calc Concepts&Apps. 3 Hours
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.

MTH 218. Any Geom & Calc III. 4 Hours
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. Appl Diff Equations. 3 Hours
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 229. Theory of Interest. 3 Hours
THEORY OF INTEREST - Rigorous, calculus-based treatment of the Theory of Interest. Topics covered include interest, compounding, discounting, annuities, sinking funds, amortization, bonds, yield rates, and applications of these ideas and processes to problems in finance. Prerequisite(s): MTH 169.

MTH 250. Adv Tech Mathematics. 3 Hours
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 MTH 168.

MTH 266. Disc&Fin Mth in MS. 3 Hours
DISCRETE AND FINITE MATHEMATICS FOR MIDDLE SCHOOL TEACHERS - 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.

MTH 270. Geom Concepts&Apps. 3 Hours
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): MTH 214.

MTH 290. Topics-(Named Area). 1-3 Hours
TOPICS IN MATHEMATICS - 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 department chairperson and/or instructor.

MTH 295. Hst Rts of Elem Math. 3 Hours
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.

MTH 308. Fndtn & Discrete Mth. 3 Hours
FOUNDATIONS AND DISCRETE MATHEMATICS - An introduction to proof using topics in foundational and discrete mathematics; propositional logic; number theory; sequences and recursion; set theory; relations; combinatorics; linear programming. Prerequisite(s): MTH 169.

MTH 310. Lin Alg & Matrices. 3 Hours
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 308. (May be taken as corequisites).

MTH 328. Actuarial Prob Sem. 1 Hour
ACTUARIAL PROBABILITY SEMINAR - Problem solving seminar to develop and improve skills in applied probability. This seminar will focus on actuarial applications of probability theory. Prerequisite(s): MTH 411.
MTH 329. Actuarial Fin Sem. 1 Hour
ACTURARIAL FINANCE SEMINAR - Problem solving seminar to develop and improve skills in applied mathematical finance. This seminar will focus on integrating the mathematical presentation of the Theory of Interest to the field of finance. Prerequisite(s): FIN 470; MTH 229.

MTH 330. Intermed Analysis. 3 Hours
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 310.

MTH 342. Set Theory. 3 Hours
SET THEORY - Elementary set theory including relations, functions, indexed families, denumerable and nondenumerable sets, cardinal and ordinal arithmetic, Zorn’s Lemma, the well-ordering principle and transfinite induction. Prerequisite(s): MTH 218, MTH 308.

MTH 343. Math-CPE&ELE Engr. 3 Hours
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. Intro-Abstrct Algbra. 3 Hours
INTRODUCTION TO ABSTRACT ALGEBRA - Fundamental concepts of groups, rings, integral domains and fields. Prerequisite(s): MTH 218, MTH 308.

MTH 367. Statistical Meth I. 3 Hours
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 MTH 367. Prerequisite(s): MTH 149 or MTH 169.

MTH 368. Statistical Meth II. 3 Hours

MTH 370. Intro to Higher Geom. 3 Hours
INTRODUCTION TO HIGHER GEOMETRY - Projective, affine, and hyperbolic geometries using synthetic and/or analytic techniques. Prerequisite(s): MTH 218, MTH 308.

MTH 376. Number Theory. 3 Hours
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 308.

MTH 395. Develop-Mathmtl Idea. 3 Hours
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 218, MTH 308.

MTH 403. Boundary Value Probs. 3 Hours
BOUNDARY VALUE PROBLEMS - Introduction to the Sturm-Liouville problem. Fourier trigonometric series, Fourier integrals, Bessel functions, and Legendre polynomials. The heat equation, wave equation, and Laplace’s equation with applications. Solutions by the product method. Prerequisite(s): MTH 219, MTH 310.

MTH 404. Complex Variables. 3 Hours
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 & Stat I. 3 Hours
PROBABILITY AND STATISTICS I - Mathematical probability, random variables, Bayes’ Theorem, Chebyshev’s Inequality, Binomial, Poisson, and Normal probability laws, moment generating functions, limit theorems, descriptive statistics, large sample statistical inference. MTH 308 is recommended as preparation for this course. Prerequisite(s): MTH 218.

MTH 412. Probability & Stat II. 3 Hours
PROBABILITY AND STATISTICS II - Multivariate distributions, transformations of random variables, sampling distribution theory, estimation of parameters including maximum likelihood, confidence intervals, the Neyman-Pearson lemma, tests of hypotheses, likelihood ratio tests. Prerequisite(s): MTH 411.

MTH 430. Real Analysis. 3 Hours
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. Adv Multivar Calc. 3 Hours
ADVANCED MULTIVARIEATE 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 310.

MTH 440. Intro Math Modeling. 3 Hours
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 are discussed. Prerequisite(s): MTH 219, MTH 310.

MTH 441. Mathematics Clinic. 1 Hour
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 department chairperson.

MTH 445. Special Topics. 1-3 Hours
SPECIAL TOPICS IN MATHEMATICS - 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 department chairperson.
MTH 458. Math Models in Fin. 3 Hours
MATHEMATICAL MODELS IN FINANCE - Mathematical models in finance which include discrete and continuous models for stock price, interest rate model, bond pricing model, and option pricing model. Quantitative methods are introduced and employed. The methods include Black-Scholes formula, Monte-Carlo simulation, and binomial tree. Markowitz’s optimal portfolio selection method is introduced and employed. Prerequisite(s): MTH 310.

MTH 465. Linear Algebra. 3 Hours
LINEAR ALGEBRA - Vector spaces, linear transformations and matrices, determinants, inner product spaces, invariant direct-sum decomposition and the Jordan canonical form. Prerequisite(s): MTH 310.

MTH 467. Comb Design Theory. 3 Hours
COMBINATORIAL DESIGN THEORY - Topic include discussion of Latin squares, mutually orthogonal Latin squares, orthogonal and perpendicular arrays, Steiner triple systems, block designs, difference sets, and finite geometries. Prerequisite(s): MTH 308 or MTH 310.

MTH 471. Topology. 3 Hours
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 308.

MTH 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

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, like any other college 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, management, leadership techniques, and the exercise of command. Advanced course students are paid $450 (juniors) and $500 (seniors) a month during the school year. During the summer between the junior and senior years, cadets enroll in a thirty-two day Leadership Development Assessment Course (LDAC), which allows them to apply the leadership and technical training learned in the classroom. While at LDAC, 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 a course in military history.

The minor in military science provides students with the opportunity to study the theory and practice of the military profession. The minor consists of twelve semester hours of upper-level courses.

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 Leader’s 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 full tuition and fees, $1200 a year for books, and a tax-free subsistence allowance of $300 a month for first year cadets, $350 a month for sophomore cadets, $450 a month during the junior year and $500 a month in the senior year for up to ten months. Scholarships, which are highly competitive, are awarded to those who demonstrate outstanding scholarly, athletic and leadership ability.

1 At Sinclair Community College:

**Course Information**

**MIL 101. Leadership I. 1 Hour**
LEADERSHIP I ROTC - programs and opportunities; rappelling, leadership, communications and management skills, and rifle marksmanship. Optional field trips, field exercises, physical training, leadership laboratory and social events.

**MIL 102. Leadership II. 1 Hour**
LEADERSHIP II - Rifles 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 & Tactics. 2 Hours**
MAP READING AND SMALL UNIT TACTICS - 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 Hours**
MILITARY LEADERSHIP - 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. Ldng Sm Orgnztns I. 3 Hours**
LEADING SMALL ORGANIZATIONS I - 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. Ldng Sm Orgnztns II. 3 Hours**
LEADING SMALL ORGANIZATIONS II - 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. Leadrship Mgmnt&Staff. 3 Hours**
LEADERSHIP MANAGEMENT AND STAFF - 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. Appld Ldrshp & Mgmt. 3 Hours**
APPLIED LEADERSHIP AND MANAGEMENT - 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. Lntd Wr/Lw Int Conft. 2 Hours**
LIMITED WAR/LOW INTENSITY CONFLICT - 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 Hours**
U.S. MILITARY TODAY - 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 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MIL 478. Honors Thesis Project. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved MIL 477 and approval of University Honors Program.

Music

Majors:
- Bachelor of Arts, Music - Jazz Studies Concentration
- Bachelor of Arts, Music - Music Studies Concentration
- Bachelor of Music, Music Composition
- Bachelor of Music, Music Education - Instrumental Concentration
- Bachelor of Music, Music Education - Vocal Concentration
- Bachelor of Music, Music Performance
- Bachelor of Music, Music Therapy

Certificate:
- Church Music

Minor:
- Music
- Music Technology

Music is a unique form of expression and communication. A course of study provides for aesthetic understanding and an opportunity to translate musical concepts into valuable and practical skills. 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
- World Music Choir
- Hands in Harmony Signing Choir
- University Orchestra
- Symphonic Wind Ensemble
- Concert Band
- “Pride of Dayton” Marching Band
- Javanese Gamelan
- Athletic Pep Bands
- Jazz ensembles
- Early Music Ensemble
- chamber music groups

The Department of Music offers five degree programs as listed below. Those majoring in the Bachelor of Arts with a major in Music (MUS) may choose from the following concentration areas: Music Studies or Jazz Studies.
- Bachelor of Arts with a major in Music (MUS)
- Bachelor of Music with a major in 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 two letters of recommendation from their high school music teachers and/or performance teachers and
2. Successfully complete the performance audition in person. Specific information regarding audition requirements and dates is available by calling the department office and visiting the department website (http://academic.udayton.edu/music).

The Department of Music offers a minor in music and a minor in music technology for non-music majors, and a church music certificate.

Transfer students pursuing a major in MUC, MUP, or MUT must complete at least twenty-four of the required semester hours in the Department of Music while in residence at the University of Dayton. Transfer students pursuing a major in MUE must complete at least twenty of the required semester hours in the Department of Music while in residence at the University of Dayton. Transfer students pursuing a music minor must complete at least twelve of the required semester hours in the Department of Music while in residence.

MUS 390 Ensembles:
Brass Ensemble - Study of repertoire for small brass ensembles including brass quintet, horn ensemble, and others. Audition required. 0.5 semester hours.
Celebration Vocal Transit - 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. 1 semester hour.
Choral Union - Mixed voice ensembles performing music from all style periods in regular concert appearances. Open to
all University students without audition. 1 semester hour.
Classical Guitar Ensemble - 0.5 semester hours.
Ebony Heritage Singers - 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. 1 semester hour.
Hands in Harmony - A sign-singing ensemble. 0.5 semester hours.
Indoor Marching Percussion Ensemble - 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. 0.5 semester hours.
Jazz Combo - Small ensemble study of works by major American jazz composers. Emphasis on group and individual improvisation. Audition required. 0.5 semester hours.
Jazz Guitar Ensemble - 0.5 semester hours.
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. 1 semester hour.
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. 1 semester hour.
Opera Workshop - Performance techniques for the singer-actor through the study and performance of music from operatic literature. Improvisational exercises are incorporated. Audition required. 0.5 semester hours.
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. 1 semester hour.
Percussion Ensemble - 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. 0.5 semester hours.
Piano Ensemble - Audition required. 0.5 semester hours.
String Ensemble - Audition required. 0.5 semester hours.
UD Gamelan Ensemble - Members will experience collective music making and the study of cultural performance practices in rehearsal and performance settings. Open to all University and community members. No audition required. 0.5 semester hours.
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. 1 semester hour.
Woodwind Ensemble - A combination of woodwind instruments to include flute choir, clarinet choir, saxophone choir, woodwind quintet, and others. 0.5 semester hours.
World Music Choir - Members explore, learn, and perform a diverse repertoire of world choral music in its cultural and historical context, often with cultural 'informants,' either in person or through the use of technology. Performances include accompanying percussion instruments and movement. Open to all University and community members. No audition required. 0.5 semester hours.

Faculty
Sharon Davis Gratto, Chairperson
Professors Emeriti: Benedum, Sandness
Professors: Chenoweth, Cox, Gratto, Hartley, Magnuson, Snyder, Street
Associate Professors: Gardstrom, Morris, Reynolds
Assistant Professors: Dorf, Jones, MacLachlan, Rush
Lecturers: Hiller, Kizer
Artists-in-Residence: Benjamin, Daniel-Cox, Farris, Leslie, McCutcheon, Sievers

Bachelor of Arts with a major in Music-Jazz Studies Concentration (MUS)
The Bachelor of Arts (BA) with a concentration in Jazz Studies focuses on the musical and historical elements of jazz. Students will study:
- Jazz improvisation
- Jazz performance
- Jazz theory
- Jazz history
- Jazz composition and arranging.

Students also participate in both large and small jazz ensembles, which provide the opportunity to become skilled in the art of practice and performance of jazz. To take advantage of the diverse academic environment at the University of Dayton, students are encouraged to earn a minor or to complete a second major within another discipline.

Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tr>
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<td>MUS 242</td>
<td>Keyboard Comp II</td>
<td>0</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Second Year Review</td>
<td>0</td>
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<td>MUS 480</td>
<td>Capstone Project Sem</td>
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<tr>
<td>MUS 481</td>
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<td>MUS 494</td>
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Music History and Literature

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<td>MUS 302</td>
<td>Mus Hist &amp; Lit II</td>
</tr>
<tr>
<td>MUS 303</td>
<td>Intro World Music</td>
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<td>MUS 306</td>
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Music Theory and Aural Skills

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<td>MUS 242</td>
<td>Keyboard Comp II</td>
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<td>Capstone Proj Pres</td>
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<td>MUS 390</td>
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<tr>
<td>or MUS 491</td>
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<tr>
<td>or MUS 492</td>
<td>Symphonic Wind Ens</td>
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<tr>
<td>or MUS 493</td>
<td>University Chorale</td>
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<tr>
<td>MUS 301</td>
<td>Mus Hist &amp; Lit I</td>
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**Liberal Studies Curriculum**

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<td>MUS 304</td>
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<td>or MUS 499</td>
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**Bachelor of Arts with a major in Music**

**Music Studies Concentration (mus)**

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<tr>
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<tr>
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<tr>
<td>or MUS 492</td>
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**Bachelor of Music with a major in Music Composition (muc)**

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<th>Course Title</th>
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<tr>
<td>MUS 202</td>
<td>Prof Dev Workshops (7 semesters)</td>
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<td>MUS 241</td>
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<td>MUS 242</td>
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<td>MUS 250</td>
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<td>MUS 314</td>
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<tr>
<td>MUS 121</td>
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<tr>
<td>MUS 122</td>
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<tr>
<td>MUS 221</td>
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<td>MUS 240</td>
<td>Fund of Conducting</td>
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<tr>
<td>MUS 345</td>
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<tr>
<td>or MUS 346</td>
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<tr>
<td>Ensembles</td>
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</table>

1 Take two semester hours of a Jazz Combo small ensemble.

**Total Hours - general education courses/academic electives to total at least** 124

1 Choose from any MUS 390. See course descriptions.
### Bachelor of Music with a major in Music Education-Instrumental Concentration (mue)

#### Music

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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>MUS 200</td>
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<td>Prof Dev Workshops</td>
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<td>MUS 231</td>
<td>Intro to Mus Ed</td>
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<td>MUS 240</td>
<td>Fund of Conducting</td>
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<td>MUS 241</td>
<td>Keyboard Comp I</td>
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<td>MUS 242</td>
<td>Keyboard Comp II</td>
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<td>MUS 250</td>
<td>Second Year Review</td>
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<tr>
<td>MUS 318</td>
<td>Fund of Arranging</td>
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<td>MUS 331</td>
<td>Choral Mus Methods</td>
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<td>MUS 332</td>
<td>Instr Mus Methods</td>
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<td>MUS 335</td>
<td>Classroom Mus Mthds</td>
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<td>MUS 340</td>
<td>Mus Ed for Spec Needs</td>
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<td>MUS 399</td>
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<td>MUS 450</td>
<td>Degree Recital</td>
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#### Ensembles

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<tbody>
<tr>
<td>MUS 399</td>
<td>Ensembles (2 semesters)</td>
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Select five semesters from:

- MUS 491 University Orchestra
- MUS 492 Symphonic Wind Ens
- MUS 493 University Chorale

#### Functional Keyboard Skills

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<td>MUS 296</td>
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<td>MUS 297</td>
<td>Func Keybd Skls II</td>
</tr>
<tr>
<td>MUS 298</td>
<td>Func Keybd Skls III</td>
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<td>MUS 299</td>
<td>Func Keybd Skls IV</td>
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<td>MUS 399</td>
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<td>MUS 499</td>
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#### Breadth Requirements

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<td>MUS 301</td>
<td>Mus Hist &amp; Lit I</td>
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<td>Communication Competencies</td>
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<td>Creative and Performing Arts (including MUS or other arts)</td>
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<tr>
<td>History</td>
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<td>L2 Proficiency (Proficiency in a language other than English)</td>
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<tr>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<tr>
<td>Natural Sciences</td>
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<td>Philosophy and Religious Studies</td>
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<td>Social Sciences</td>
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1 Each composition major must present one and a half recitals of original work by the senior year.
2 May substitute MUS 390 with permission.
3 Functional Keyboard Skills or equivalent is required.
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<th>Course Name</th>
<th>Semester Hours</th>
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<td>Brass Pedagogy (2 semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 338</td>
<td>Percussn Pedagogy</td>
<td></td>
</tr>
<tr>
<td>MUS 339</td>
<td>String Pedagogy (2 semesters)</td>
<td></td>
</tr>
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</table>

Select a minimum of 6 elective semester hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 233</td>
<td>Eurhythmics</td>
<td></td>
</tr>
<tr>
<td>MUS 295</td>
<td>Beg Guitar Class II</td>
<td></td>
</tr>
<tr>
<td>MUS 338</td>
<td>Percussn Pedagogy</td>
<td></td>
</tr>
<tr>
<td>MUS 345</td>
<td>Choral Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS 346</td>
<td>Instr Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS 381</td>
<td>Clin Educ Improv I</td>
<td></td>
</tr>
<tr>
<td>MUS 399</td>
<td>Performance Studies (may be repeated)</td>
<td></td>
</tr>
<tr>
<td>MUS 408</td>
<td>Dictn&amp;Lit-Singrs</td>
<td></td>
</tr>
<tr>
<td>MUS 430</td>
<td>Jazz Pedagogy</td>
<td></td>
</tr>
<tr>
<td>MUS 431</td>
<td>Marching Band Pedagoy</td>
<td></td>
</tr>
</tbody>
</table>

**Teacher Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDT 110</td>
<td>Profession-Teachng</td>
<td></td>
</tr>
<tr>
<td>EDT 110L</td>
<td>Prfssn Tchng Lab</td>
<td></td>
</tr>
<tr>
<td>EDT 207</td>
<td>Child&amp;Adol In Educnt</td>
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</tr>
<tr>
<td>EDT 207L</td>
<td>Child &amp; Adist Ed Lab</td>
<td></td>
</tr>
<tr>
<td>EDT 305</td>
<td>Phil&amp;Hist of Amer Ed</td>
<td></td>
</tr>
<tr>
<td>EDT 459</td>
<td>Crt Rdg Wrtg Cnt Ar</td>
<td></td>
</tr>
<tr>
<td>EDT 479</td>
<td>Stdt Tchng-Mus K-12</td>
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</table>

**Breadth Requirements**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 150</td>
<td>Intr to the Univ Exp</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HST 103</td>
<td>West and World</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or HST 198</td>
<td>HST Scholars Sem</td>
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**Communication Competencies**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td></td>
<td></td>
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**Mathematics (excluding MTH 102, 204, 205)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tr>
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<td></td>
<td></td>
<td>3</td>
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**Natural Sciences**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tbody>
<tr>
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<td></td>
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<td>6</td>
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**Philosophy and Religious Studies**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>9</td>
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**Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
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</table>

Total Hours - general education courses/academic electives to total at least 144

---

1 Students in the music education program are required to maintain a 2.5 cumulative grade point average, a 2.5 cumulative average in teacher education courses, and a 2.5 cumulative average in music courses. Students must earn a grade of C- or higher in the following core music education courses: MUS 331, 332 and 335.

2 On principal instrument.

3 Students will select one of two concentration areas (instrumental or vocal). Upon completion of the degree and Praxis 2 exam, candidates will receive a Resident Educator License (Four Year, Multi-age, P-12) from the State of Ohio to teach music from pre-kindergarten through senior high school.

### Bachelor of Music with a major in Music Education-VOCAL CONCENTRATION (mue)

**Music**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
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<tbody>
<tr>
<td>MUS 200</td>
<td>Recital Attendance (7 semesters)</td>
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</tr>
<tr>
<td>MUS 202</td>
<td>Prof Dev Workshops (7 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Intro to Mus Ed</td>
<td>2</td>
</tr>
<tr>
<td>MUS 240</td>
<td>Fund of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 241</td>
<td>Keyboard Comp I</td>
<td>0</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Keyboard Comp II</td>
<td>0</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Second Year Review</td>
<td>0</td>
</tr>
<tr>
<td>MUS 318</td>
<td>Fund of Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 331</td>
<td>Choral Mus Methods</td>
<td>3</td>
</tr>
<tr>
<td>MUS 332</td>
<td>Instr Mus Methods</td>
<td>3</td>
</tr>
<tr>
<td>MUS 335</td>
<td>Classroom Mus Mthds</td>
<td>3</td>
</tr>
<tr>
<td>MUS 340</td>
<td>Mus Ed for Spec Needs</td>
<td>2</td>
</tr>
<tr>
<td>MUS 399</td>
<td>Performance Studies (7 semesters)²</td>
<td>1-2</td>
</tr>
<tr>
<td>MUS 450</td>
<td>Degree Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 408</td>
<td>Dictn&amp;Lit-Singrs</td>
<td>2</td>
</tr>
<tr>
<td>MUS 430</td>
<td>Beg Guitar Class II</td>
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<tr>
<td>MUS 431</td>
<td>Marching Band Pedagoy</td>
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**Functional Keyboard Skills**

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>MUS 296</td>
<td>Func Keybd Skls I</td>
<td></td>
</tr>
<tr>
<td>MUS 297</td>
<td>Func Keybd Skls II</td>
<td></td>
</tr>
<tr>
<td>MUS 298</td>
<td>Func Keybd Skls III</td>
<td></td>
</tr>
<tr>
<td>MUS 299</td>
<td>Func Keybd Skls IV</td>
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**Music History and Literature**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>MUS 301</td>
<td>Mus Hist &amp; Lit I</td>
<td></td>
</tr>
<tr>
<td>MUS 302</td>
<td>Mus Hist &amp; Lit II</td>
<td></td>
</tr>
<tr>
<td>MUS 303</td>
<td>Intro World Music</td>
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</table>

**Music Theory and Aural Skills**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 111</td>
<td>Theory of Music I</td>
<td></td>
</tr>
<tr>
<td>MUS 112</td>
<td>Theory of Music II</td>
<td></td>
</tr>
<tr>
<td>MUS 113</td>
<td>Aural Skills I</td>
<td></td>
</tr>
<tr>
<td>MUS 114</td>
<td>Aural Skills II</td>
<td></td>
</tr>
<tr>
<td>MUS 211</td>
<td>Theory of Music III</td>
<td></td>
</tr>
<tr>
<td>MUS 212</td>
<td>Theory of Music IV</td>
<td></td>
</tr>
<tr>
<td>MUS 213</td>
<td>Aural Skills III</td>
<td></td>
</tr>
<tr>
<td>MUS 214</td>
<td>Aural Skills IV</td>
<td></td>
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</table>

**Additional requirements for Vocal Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 408</td>
<td>Dictn&amp;Lit-Singrs</td>
<td>2</td>
</tr>
<tr>
<td>MUS 390</td>
<td>Ensembles (choral)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 398</td>
<td>Ensembles (instrumental)</td>
<td></td>
</tr>
<tr>
<td>or MUS 492</td>
<td>Symphonic Wind Ens</td>
<td></td>
</tr>
<tr>
<td>or MUS 493</td>
<td>University Chorale</td>
<td></td>
</tr>
</tbody>
</table>

**Music Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 195</td>
<td>Beg Guitar Class I</td>
<td></td>
</tr>
<tr>
<td>MUS 295</td>
<td>Beg Guitar Class II</td>
<td></td>
</tr>
<tr>
<td>MUS 235</td>
<td>Voice Pedagogy</td>
<td></td>
</tr>
<tr>
<td>or MUS 236</td>
<td>Voice Lab</td>
<td></td>
</tr>
<tr>
<td>MUS 237</td>
<td>Brass Instrument Lab</td>
<td></td>
</tr>
<tr>
<td>MUS 238</td>
<td>WW Instrument Lab</td>
<td></td>
</tr>
<tr>
<td>MUS 338</td>
<td>Percussn Pedagogy</td>
<td></td>
</tr>
<tr>
<td>MUS 339</td>
<td>String Pedagogy</td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of 6 elective semester hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 233</td>
<td>Eurhythmics</td>
<td></td>
</tr>
</tbody>
</table>

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2 On principal instrument.

3 Students will select one of two concentration areas (instrumental or vocal). Upon completion of the degree and Praxis 2 exam, candidates will receive a Resident Educator License (Four Year, Multi-age, P-12) from the State of Ohio to teach music from pre-kindergarten through senior high school.
MUS 328  Hst-Amer Musical
MUS 399  Performance Studies (if not previously taken)
MUS 345  Choral Conducting
MUS 346  Instr Conducting
MUS 381  Clin Educ Improv I
MUS 399  Performance Studies (on secondary instrument, may be repeated)
MUS 408  Dictn&Lit-Singrs (if not previously taken)
MUS 345  Choral Conducting
MUS 346  Instr Conducting
MUS 381  Clin Educ Improv I
Teacher Education
  EDT 110  Profession-Teaching
  EDT 110L  Prfssn Tchg Lab
  EDT 207  Child&Adol In Eductn
  EDT 207L  Child & Adlsct Ed Lab
  EDT 305  Phil&Hist of Amer Ed
  EDT 459  Crt Rdg Wrng Cnt Ar
  EDT 479  Stdt Tchg-Mus K-12
Breadth Requirements
  ASI 150  Intr to the Univ Exp
  HST 103  West and World
  or HST 198  HST Scholars Sem
  Communication Competencies
  Mathematics (excluding MTH 102, 204, 205)
  3  3
  Natural Sciences
  6
  Philosophy and Religious Studies
  9
  Social and Behavioral Sciences
  3
Total Hours - general education courses/academic electives to total at least 144

1 Students in the music education program are required to maintain a 2.5 cumulative grade point average, a 2.5 cumulative average in teacher education courses, and a 2.5 cumulative average in music courses. Students must earn a grade of C- or higher in the following core music education courses: MUS 331, 332 and 335.

2 On principal instrument.

3 Students will select one of two concentration areas (instrumental or vocal). Upon completion of the degree and Praxis 2 exam, candidates will receive a Resident Educator License (Four Year, Multi-age, P-12) from the State of Ohio to teach music from pre-kindergarten through senior high school.

Bachelor of Music with a major in Music Performance (mup)

Music
  MUS 200  Recital Attendance (7 semesters)
  MUS 202  Prof Dev Workshops (7 semesters)
  MUS 241  Keyboard Comp I
  MUS 242  Keyboard Comp II
  MUS 250  Second Year Review
  MUS 450  Degree Recital (2 required)
  Conducting and Arranging
    MUS 240  Fund of Conducting
    MUS 318  Fund of Arranging
  Ensembles
    MUS 491  University Orchestra
    or MUS 492  Symphonic Wind Ens
    or MUS 493  University Chorale
  Music History and Literature
    MUS 301  Mus Hist & Lit I
    MUS 302  Mus Hist & Lit II
    MUS 303  Intro World Music
  Music Theory and Aural Skills
    MUS 111  Theory of Music I
    MUS 112  Theory of Music II
    MUS 113  Aural Skills I
    MUS 114  Aural Skills II
    MUS 211  Theory of Music III
    MUS 212  Theory of Music IV
    MUS 213  Aural Skills III
    MUS 214  Aural Skills IV
  Performance Studies
    Major area of specialization (24-32 hours)
    Minor area of specialization (4-12 hours)
    MUS electives
Breadth Requirements
  ASI 150  Intr to the Univ Exp
  HST 103  West and World
  or HST 198  HST Scholars Sem
  Communication Competencies
  Mathematics (excluding MTH 102, 204, 205)
  3  3
  Natural Sciences
  6
  Philosophy and Religious Studies
  12
  Social and Behavioral Sciences
  6
Total Hours - general education courses/academic electives to total at least 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-MUS 299 or MUS 399.

3 Voice majors must take MUS 235 and MUS 408; piano majors must include MUS 405 and MUS 435; instrumental majors must take a pedagogy course in their area of specialization. Wind, string, brass and percussion majors should register for the appropriate pedagogy course in their area of performance (MUS 336-MUS 339). Majors are strongly urged to register for a Special Topics class with their performance instructor chosen to complement other performance studies.

4 Voice majors must include two semesters of foreign language study.

Bachelor of Music with a major in Music Therapy (mut)

Music
  MUS 200  Recital Attendance (7 semesters)
  MUS 202  Prof Dev Workshops (7 semesters)
  MUS 241  Keyboard Comp I
MUS 242  Keyboard Comp II 0
MUS 250  Second Year Review 0
MUS 450  Degree Recital 0
MUS 489  Mus Therapy Internship 2
Conducting and Arranging 4
  MUS 240  Fund of Conducting
  MUS 318  Fund of Arranging
Ensembles 6
  MUS 491  University Orchestra
  or MUS 492  Symphonic Wind Ens
  or MUS 493  University Chorale
Music History and Literature 9
  MUS 301  Mus Hist & Lit I
  MUS 302  Mus Hist & Lit II
  MUS 303  Intro World Music
Music Theory and Aural Skills 16
  MUS 111  Theory of Music I
  MUS 112  Theory of Music II
  MUS 113  Aural Skills I
  MUS 114  Aural Skills II
  MUS 211  Theory of Music III
  MUS 212  Theory of Music IV
  MUS 213  Aural Skills III
  MUS 214  Aural Skills IV
Music Therapy, including core courses and practica 27
  MUS 233  Eurhythmics
  MUS 282  Func Mus Thrpy Skls
  MUS 285  Intro Mus Therapy
  MUS 286  Mus Therapy Methods
  MUS 287  Practcm Mus Thrpy I
  MUS 288  Practcm Mus Thrpy II
  MUS 289  Practcm Mus Thrpy III
  MUS 290  Mus Ther Treat Proc
  MUS 381  Clin Educ Improv I
  MUS 382  Clin Educ Improv II
  MUS 385  Music Therapy Prin
  MUS 386  Music & Psychothrpy
  MUS 387  Practcm Mus Thrpy IV
  MUS 388  Practcm Mus Thrpy V
  MUS 486  Mus Therapy Research
Performance Studies 10
  MUS 399  Performance Studies
Vocal and instrumental methods, including accompanying instruments of piano and guitar:
  MUS 195  Beg Guitar Class I
  MUS 295  Beg Guitar Class II
  MUS 296  Func Keybd Skls I
  MUS 297  Func Keybd Skls II
  MUS 298  Func Keybd Skls III
  MUS 299  Func Keybd Skls IV
  MUS 338  Percussn Pedagogy
Select one semester hour from:
MUS 237  Brass Instrument Lab
MUS 238  WW Instrument Lab
MUS 293  Organ Class
Music and dance electives 5

**Breadth Requirements**

ASI 150  Intr to the Univ Exp 1
HSS 305  Human Anatomy 3
HST 103  West and World 3
or HST 198  HST Scholars Sem 3
PSY 101  Introductory Psych 3
PSY 351  Child Psychology 3
PSY 355  Devlp Psychpath 3
PSY 363  Abnormal Psychology 3

**Communication Competencies** 3-9
Mathematics (excluding MTH 102, 204, 205) 4
Philosophy and Religious Studies 12
Sciences 3

Total Hours - general education courses/academic electives to total at least 133

1 This 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.

2 Performance studies on the student’s principal instrument leading to a minimum of a half-recital during the junior or senior year.

3 One semester of MUS 338 must be completed for a total of one semester hour.

4 MTH 207 recommended.

**Certificate in Church Music (MCh)**

**Church Music**
MUS 110  Fundamentals of Mus 1 2
MUS 350  Sacred Music Hst 3
MUS 351  Church Music Admin 2
MUS 390  Ensembles 0-1
MUS 399  Performance Studies 1-2
MUS 452  Contemp Litgcl Mus Rep 2
MUS 459  Church Music Internship 2
REL 446  Chrsn Liturgy 2 3

Select one course from:
  MUS 240  Fund of Conducting
  MUS 545  Adv Choral Cond

Select six semester hours from:
  MUS 318  Fund of Arranging
  MUS 461  ST:Church Music
  MUS 505  Teach Music w/Technology I
  MUS 506  Teach Music w/Technology II

**Total Hours** 23-25
May substitute additional credits in performance studies or church music workshops for MUS 110.

Or two to three semester hours of a suitable religious studies course.

**Minor in Music (mus)**

**Music**

Select one track from:

| Track A: |  
|---|---|
| MUS 115 | Music Theory Prac |
| MUS 116 | Music Theory Prac |
| MUS 217 or MUS 218 | Listen & Transcrip or Jazz Pop Theory |
| MUS 301 | Mus Hist & Lit I |
| MUS 302 | Mus Hist & Lit II |

Select MUS electives (8 hours)

<table>
<thead>
<tr>
<th>Track B:</th>
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<tbody>
<tr>
<td>MUS 111</td>
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<tr>
<td>MUS 112</td>
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<tr>
<td>MUS 113</td>
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<tr>
<td>MUS 114</td>
</tr>
<tr>
<td>MUS 301</td>
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<tr>
<td>MUS 302</td>
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</table>

Select MUS electives (8 hours)

Total Hours: 22

1. Must include six semester hours at the 300/400 level.
2. No more than two semester hours of ensemble (MUS 390, MUS 491, MUS 492, MUS 493) will count toward the minor.

**Minor in Music Technology (mus)**

**Music Technology**

Select one music theory option from:

| Option A |  
|---|---|
| MUS 115 | Music Theory Prac |
| MUS 116 | Music Theory Prac |
| MUS 217 or MUS 218 | Listen & Transcrip or Jazz Pop Theory |

| Option B |  
|---|---|
| MUS 111 | Theory of Music I |
| MUS 112 | Theory of Music II |
| MUS 113 | Aural Skills I |
| MUS 114 | Aural Skills II |

Applied Studies

| Applied Studies |  
|---|---|
| MUS 399 | Performance Studies |
| MUS 499 | Performance |

Ensembles

| Ensembles |  
|---|---|
| MUS 491 | University Orchestra |
| MUS 492 | Symphonic Wind Ens |
| MUS 493 | University Chorale |

Music History and Literature

| Music History and Literature |  
|---|---|
| MUS 301 | Mus Hist & Lit I |
| MUS 302 | Mus Hist & Lit II |
| MUS 303 | Intro World Music |

Total Hours: 24

1. Take a total of six semester hours from any combination of these courses.
2. Take a total of two semester hours from any combination of these courses.

**Courses**

**MUS 104. Mus Lit-Elem Classrm. 2 Hours**

MUSIC LITERATURE FOR THE ELEMENTARY CLASSROOM - Study of music literature and its direct application to elementary classroom use.

**MUS 110. Fundamentals of Mus. 2 Hours**

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. 2 Hours**

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. 2 Hours**

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 of instructor.

**MUS 113. Aural Skills I. 2 Hours**

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. 2 Hours**

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 of instructor.

**MUS 115. Music Theory Prac. 3 Hours**

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 Theory Pract. 3 Hours
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. 1 Hour
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 (may be taken as a corequisite).

MUS 122. Composition I. 1 Hour
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 (may be taken as a corequisite). Corequisite(s): MUS 121.

MUS 191. Voice Class. 2 Hours
VOICE CLASS - Basic principles of good singing; development of the voice; vocal literature. Open to all students, especially non-music majors.

MUS 195. Beg Guitar Class I. 1 Hour
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. 1 Hour
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. 0 Hours
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. 3 Hours
MUSIC IN CONCERT - 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. Prof Dev Workshops. 0 Hours
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 & Sounds-Music. 3 Hours
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. Mus, Instrumnts & Tech. 3 Hours
MUSIC, INSTRUMENTS, AND TECHNOLOGY - 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. 2 Hours
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 of instructor.

MUS 212. Theory of Music IV. 2 Hours
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 of instructor.

MUS 213. Aural Skills III. 2 Hours
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 of instructor.

MUS 214. Aural Skills IV. 2 Hours
AURAL SKILLS IV - Late nineteenth, twentieth and twenty-first 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 of instructor.

MUS 217. Listen & Transcrip. 2 Hours
LISTENING AND TRANSCRIPTION SKILLS - Skills in hearing and notating music of representative and diverse styles through use of digital recording, sequencing, and computer notation software. Prerequisite(s): (MUS 112, 114) or permission of instructor.

MUS 218. Jazz Pop Theory. 2 Hours
POPULAR AND JAZZ THEORY - Skills in the composition and arranging of popular and jazz styles in music including harmonic progression, melodic forms and the structure of voices and instruments in arrangements. Emphasis on creative applications of technology on the facility of music production. Culminating project is an arrangement, produced and recorded by the student. Prerequisite(s): (MUS 111, 112) or (MUS 115, 116) or permission of instructor.

MUS 221. Composition II. 1 Hour
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 (may be taken as a corequisite).
MUS 222. Composition II. 1 Hour
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 212, 221, (may be taken as corequisites).

MUS 223. Intro Music Tech. 2 Hours
INTRODUCTION TO MUSIC TECHNOLOGY - 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, 112) or (MUS 115, 116) or permission of instructor.

MUS 231. Intro to Mus Ed. 2 Hours
INTRODUCTION TO MUSIC EDUCATION - An introduction to a wide variety of pedagogical and philosophical aspects of teaching the arts. Topics will include technology, national and state standards, history, and professional organizations. Prerequisite(s): EDT 110.

MUS 232. Integrating the Arts. 2 Hours
INTEGRATING THE ARTS - 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 233. Eurhythms. 1 Hour
EURHYTHMICS - Exploration of time, space, and energy through individual and collaborative structured and creative movement for musicianship skill development.

MUS 235. Voice Pedagogy. 1 Hour
VOICE PEDAGOGY - Techniques for teaching singing. Prerequisite(s): Voice major or permission of instructor.

MUS 236. Voice Lab. 1 Hour
VOICE LABORATORY - Introduction to the performance and pedagogical techniques for voice. Prerequisite(s): Instrumental music major or permission of department chairperson.

MUS 237. Brass Instrument Lab. 1 Hour
BRASS INSTRUMENT LABORATORY - Introduction to the performance and pedagogical techniques for the brass instrument family.

MUS 238. WW Instrument Lab. 1 Hour
WOODWIND INSTRUMENT LABORATORY - Introduction to the performance and pedagogical techniques for the woodwind instrument family. Fee.

MUS 240. Fund of Conducting. 2 Hours
FUNDAMENTALS OF CONDUCTING - 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 241. Keyboard Comp I. 0 Hours
KEYBOARD COMPETENCY I - Successful mastery of keyboard competency skills required for the first year music major. Prerequisite(s): Permission of department chairperson.

MUS 242. Keyboard Comp II. 0 Hours
KEYBOARD COMPETENCY II - Successful mastery of keyboard competency skills required for the second year music major. Prerequisite(s): MUS 241; permission of department chairperson.

MUS 250. Second Year Review. 0 Hours
SECOND YEAR REVIEW - Required mid-point evaluation of all music majors typically completed in the second semester of the second year of study toward the degree. Students must earn a satisfactory grade (S) in this course in order to enroll in upper-level coursework in their respective degree programs. Prerequisite(s): Permission of department chairperson.

MUS 280. Mus & Mvmt Ind Disab. 1 Hour
MUSIC AND MOVEMENT FOR PERSONS WITH DISABILITIES - 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. Func Mus Thrpy Skls. 2 Hours
FUNCTIONAL MUSIC THERAPY SKILLS - Aids music therapy majors in the development of functional competencies on keyboard, guitar, and voice, as well as the ability to learn, memorize, and perform a broad repertoire of American popular song. Prerequisite(s): MUS 112, 114.

MUS 285. Intro Mus Therapy. 2 Hours
INTRODUCTION TO MUSIC THERAPY - 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.

MUS 286. Mus Therapy Methods. 2 Hours
MUSIC THERAPY METHODS - Introduction to four methods of music therapy: re-creative, receptive, composition, and improvisation. Emphasis on assessment, planning, facilitation, and evaluation of music therapy experiences within each method. Prerequisite(s): MUS 285.

MUS 287. Practcm Mus Thrpy I. 1 Hour
PRACTICUM IN MUSIC THERAPY I - Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required. Prerequisite(s): MUS 282; permission of department chairperson.

MUS 288. Practcm Mus Thrpy II. 1 Hour
PRACTICUM IN MUSIC THERAPY II - Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required. Prerequisite(s): MUS 250, 287.

MUS 289. Practcm Mus Thrpy III. 1 Hour
PRACTICUM IN MUSIC THERAPY III - Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required. Prerequisite(s): MUS 288.

MUS 290. Mus Ther Treat Proc. 1 Hour
MUSIC THERAPY TREATMENT PROCESSES - Addresses the development of established competencies in the areas of music therapy referral, assessment, treatment planning, evaluation, supervision, and documentation of these processes. Prerequisite(s): MUS 285.

MUS 293. Organ Class. 1 Hour
ORGAN CLASS - Introduction to the organ, including basic performance techniques, registration, beginning literature, and hymn playing. Fee.
MUS 294. Harpsichord Class. 1 Hour
HARPSICHORD CLASS - Beginning course in harpsichord performance, including basic technique, stylistic considerations, and simple maintenance and tuning of the instrument. Fee.

MUS 295. Beg Guitar Class II. 1 Hour
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. Func Keybd Skls I. 1 Hour
FUNCTIONAL KEYBOARD SKILLS I - Instruction in development of basic performance technique, sight reading, accompanying, transposing, playing by ear, improvising, and score reading. Fee.

MUS 297. Func Keybd Skls II. 1 Hour
FUNCTIONAL KEYBOARD SKILLS II - Further development of techniques introduced in MUS 296. Fee. Prerequisite(s): MUS 296.

MUS 298. Func Keybd Skls III. 1 Hour
FUNCTIONAL KEYBOARD SKILLS III - Continuation of MUS 297 with emphasis on improvisation and harmonization techniques. Fee.

MUS 299. Func Keybd Skls IV. 1 Hour
FUNCTIONAL KEYBOARD SKILLS IV - Continuation of MUS 298 with emphasis on advanced chord work and modulation techniques. Fee. Prerequisite(s): MUS 298.

MUS 301. Mus Hist & Lit I. 3 Hours
MUSIC HISTORY AND LITERATURE I - Survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 302. Mus Hist & Lit II. 3 Hours
MUSIC HISTORY AND LITERATURE II - Survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 303. Intro World Music. 3 Hours
INTRODUCTION TO MUSIC OF THE WORLD - Survey of music from representative cultures around the world, and its role and function in society.

MUS 304. Hst of Amer Music. 3 Hours
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. Africn Amer Sac Mus. 3 Hours
AFRICAN-AMERICAN SACRED MUSIC - 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-Amer Jazz. 3 Hours
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. Dev Amer Poplr Song. 3 Hours
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 Mus & Sympthy. 2 Hours
MUS 309. Opera Hst & Lit. 3 Hours
OPERA HISTORY AND LITERATURE - Survey of the development of the opera and its literature from its seventeenth-century beginnings to the present. Focus upon major works and composers. Open to all University students.

MUS 310. Mozart's Operas. 3 Hours
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. 18th Cent Counterpt. 2 Hours
EIGHTEENTH-CENTURY COUNTERPOINT - Study of the contrapuntal technique of the eighteenth century, particularly in the instrumental works of J.S. Bach. Original compositions in forms of the invention and the fugue. Prerequisite(s): MUS 211, MUS 212.

MUS 312. 16th Cen Countrpnt. 2 Hours
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. Adv Aural Skills. 2 Hours
ADVANCED AURAL SKILLS - Advanced training in dictation, solfege, and aural analysis. Prerequisite(s): MUS 215.

MUS 314. Score Reading. 2 Hours
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. Fund of Orchestration. 2 Hours
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. Fund of Arranging. 2 Hours
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. 2 Hours
COMPOSITION III - Explorations of original composition, which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. Prerequisite(s): MUS 214, 250.

MUS 322. Composition III. 2 Hours
COMPOSITION III - Explorations of original composition, which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics. Prerequisite(s): MUS 250, 321.
MUS 323. Rec&Digital Media. 3 Hours
RECORDING ARTS AND DIGITAL MEDIA - Comprehensive overview of digital audio and digital visual media. Skills in recording, archiving, and presenting work. Prerequisite(s): MUS 223 or permission of instructor.

MUS 325. Beethoven & his Era. 3 Hours
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.

MUS 327. Music in Film. 3 Hours
MUSIC IN FILM - 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. Hst-Amer Musical. 3 Hours
HISTORY OF THE AMERICAN MUSICAL - Survey of the history and literature of the American musical from its nineteenth 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 Mus Methods. 3 Hours
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. Prerequisite(s): MUS 250.

MUS 332. Instr Mus Methods. 3 Hours
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. Prerequisite(s): MUS 250.

MUS 335. Classroom Mus Mthds. 3 Hours
CLASSROOM MUSIC METHODS - Pedagogical techniques for classroom music in grades preK through 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. Prerequisite(s): MUS 250.

MUS 336. Woodwind Pedagogy. 1 Hour
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 two semester hours. Fee.

MUS 337. Brass Pedagogy. 1 Hour
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 two semester hours. Fee.

MUS 338. Percussn Pedagogy. 0.5-1 Hours
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 one and a half semester hours. Fee.

MUS 339. String Pedagogy. 1 Hour
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. Mus Ed for Spec Needs. 2 Hours
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 Hours
CHORAL CONDUCTING - Continuation of techniques introduced in MUS 240, dealing specifically with techniques for choral ensembles. Prerequisite(s): MUS 240.

MUS 346. Instr Conducting. 2 Hours
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 Hst. 3 Hours
SACRED MUSIC HISTORY - 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 Admin. 2 Hours
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 352. Udstg Scrd Mus&Wrshp. 3 Hours
UNDERSTANDING SACRED MUSIC AND WORSHIP IN THE LOCAL CHURCH - Focus on the important relationship between music and worship in the life of the church with an emphasis on major contemporary trends in sacred music and work. An historical overview of music and worship with biblical foundations for both are provided. Prerequisite(s): REL 103; (ASI 111, 112).
MUS 360. Special Topics-Music. 1-3 Hours
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. Clin Educ Improv I. 2 Hours
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 212, 214.

MUS 382. Clin Educ Improv II. 2 Hours
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 Prin. 3 Hours
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. Prerequisite(s): MUS 289.

MUS 386. Music & Psychotherapy. 3 Hours
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. Practm Mus Thrpy IV. 2 Hours
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. Practm Mus Thrpy V. 2 Hours
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. Ensembles. 0-1 Hours
ENSEMBLES - Various ensembles offered by the Department of Music. See overview page for ensemble titles. Prerequisite(s): Permission of instructor.

MUS 391. Jazz Improv I. 1 Hour
JAZZ IMPROVISATION I - Study of the musical elements that define the musical elements of jazz improvisation from the beginning to the intermediate level. Prerequisite(s): MUS 114 or permission of department chairperson.

MUS 392. Jazz Improv II. 1 Hour
JAZZ IMPROVISATION II - Study of the musical elements that define the various styles of jazz improvisation from the intermediate to the advanced level. Prerequisite(s): MUS 391 or permission of department chairperson.

MUS 396. Jazz Kybd Harmony I. 1 Hour
JAZZ KEYBOARD HARMONY I - Practical and theoretical course of study achieved through in-depth analyses at an introductory level of chords and chord voicings, repertoire, manuscripts, videos and recordings of great jazz pianists. Students identify and perform harmonic techniques of jazz piano used by twentieth century jazz pianists. Fee. Prerequisite(s): MUS 297 or permission of department chairperson.

MUS 397. Jazz Kybd Harmony I. 1 Hour
JAZZ KEYBOARD HARMONY II - Practical and theoretical course of study achieved through in-depth analyses at an intermediate level of chords and chord voicings, repertoire, manuscripts, videos and recordings of great jazz pianists. Students identify and perform harmonic techniques of jazz piano used by twentieth century jazz pianists. Fee. Prerequisite(s): MUS 396 or permission of department chairperson.

MUS 398. Instrumental Jazz Improv. 1 Hour
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. 1-2 Hours
PERFORMANCE STUDIES - Private instruction (one thirty to forty-five 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. Med & Renassace Mus. 1 Hour
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. 2 Hours
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&Romantic Mus. 3 Hours
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. 20thcentury Music. 2 Hours
TWENTIETH-CENTURY MUSIC - Study of twentieth-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. 2 Hours
PIANO LITERATURE - Comprehensive survey of literature for the piano. Required of piano performance majors.

MUS 408. Dictn&Lit-Singrs. 2 Hours
DICTION AND LITERATURE FOR SINGERS - 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&Design. 2 Hours
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&Design-Synthesis. 2 Hours
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. Adv Orchestration. 2 Hours
ADVANCED ORCHESTRATION - Continuation of MUS 316. Intensive instrumentation studies and detailed analysis of orchestral work. Prerequisite(s): MUS 316.

MUS 418. Research in Mus Theory. 2 Hours
RESEARCH IN MUSIC THEORY - Practical experience in analysis for music composition majors. Prerequisite(s): Senior standing in music.

MUS 419. Research in Mus Theory. 2 Hours
RESEARCH IN MUSIC THEORY - Practical experience in analysis for music composition majors. Prerequisite(s): Senior standing in music.

MUS 421. Composition IV. 2 Hours
COMPOSITION IV - Advanced work in musical composition, writing multi-movement forms of both vocal and instrumental music. Prerequisite(s): MUS 250, 321, 322.

MUS 422. Composition IV. 2 Hours
COMPOSITION IV - Advanced work in musical composition, writing multi-movement forms of both vocal and instrumental music. Prerequisite(s): MUS 250, 321, 322.

MUS 423. Compstn-Lrge Ensemb. 2 Hours
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. Adv Notatnl Technq. 2 Hours
MUS 425. Electron Mus Compos. 2 Hours
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. Improv Mus Composn. 2 Hours
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. 2 Hours
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. 2 Hours
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. 2 Hours
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. Adv Instrumentl Conduct. 2 Hours
ADVANCED INSTRUMENTAL CONDUCTING - Individualized instruction dealing with advanced analysis, interpretation, aural skills, repertoire study, and conducting. Prerequisite(s): MUS 346.

MUS 450. Degree Recital. 0 Hours
DEGREE RECITAL - Required performance for all students pursuing MUC, MUE, MUP, and MUT majors. In order to successfully complete the degree program, students must earn a satisfactory grade ("S") in this course. Prerequisite(s): MUS 250; permission of department chairperson.

MUS 452. Contemp Litgcl Mus Rep. 2 Hours
CONTEMPORARY LITURGICAL MUSIC REPERTOIRE - Examination of ways in which contemporary musical resources are utilized in the worship of Christian churches. Choral, congregational, cantorial, 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. 2 Hours
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 of department chairperson.

MUS 460. Special Topics-Music. 1-9 Hours
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. ST:Church Music. 1-8 Hours
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. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.
MUS 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

MUS 480. Capstone Project Sem. 1 Hour
CAPSTONE PROJECT SEMINAR - The first in a sequence of two capstone courses. To be taken in the first semester of the senior year. This course is required for all Bachelor of Arts with a major in Music degrees. Students select a faculty mentor and work with the mentor to establish a capstone project topic, goals, outcomes, and timeline associated with the project. Prerequisite(s): MUS 250; senior standing; MUS major or permission of department chairperson.

MUS 481. Capstone Proj Pres. 1 Hour
CAPSTONE PROJECT AND PRESENTATION - The second of two capstone courses leading to graduation. To be taken in the second semester of the senior year. Students implement, complete, present, and evaluate a project within their area of concentration, reviewed by faculty and peers. Faculty approval of project and presentation is required for graduation. Prerequisite(s): MUS 480 or permission of department chairperson.

MUS 486. Mus Therapy Research. 2 Hours
RESEARCH IN MUSIC THERAPY - Introduction to research methods; review of literature on experimental studies. Research project.

MUS 489. Mus Therapy Intrnshp. 2 Hours
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. 1 Hour
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 Ens. 1 Hour
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. 1 Hour
UNIVERSITY CHORALE - Mixed vocal ensemble performing music from all style periods in regular concert appearances. Open to all University students. Auditions required.

MUS 494. Dayton Jazz Ensemble. 1 Hour
DAYTON JAZZ ENSEMBLE - Ensemble specializes in the interpretation and performance of traditional and contemporary big band jazz, including the art of improvisation. Audition required.

MUS 499. Performance. 4 Hours
PERFORMANCE STUDIES - Private instruction (one-hour lessons weekly) in the same subjects as MUS 399. Fee. Prerequisite(s): Permission of instructor.

Philosophy
Major
- Bachelor of Arts, Philosophy

Minor:
- Philosophy

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 thirty-seven 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
John Inglis, Chairperson
Professors Emeriti: Kunkel, Quinn, Ulrich, Zembaty
Professors: Benson, DesAutels, Fischer, Fouke, Inglis, Johnson, Kebede, Tibbetts
Associate Professors: Gabbe, Mosser, Payne, Poe, Richards, Whisnant
Assistant Professors: James, McLeod, Paslaru, Velasquez
Lecturers: Bresnahan, Cheung, Lockwood, Marvin, Mullins

Bachelor of Arts with a major in Philosophy (phl)

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<tr>
<th>Philosophy</th>
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<tr>
<td>PHL 103</td>
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Select two seminars (400 level) 6

Select one track from:

Ethics and Social Justice 15

Select two courses from:

| PHL 307    | Philosophy and Women |
| PHL 310    | Social Philosophy    |
| PHL 312    | Ethics               |
| PHL 313    | Business Ethics      |
| PHL 314    | Philosophy of Law    |
| PHL 315    | Medical Ethics       |
| PHL 316    | Engineering Ethics   |
| PHL 317    | Ethics&Modern War    |
| PHL 318    | Family Ethics        |
| PHL 319    | Information Ethics   |
| PHL 321    | Environmntl Ethics   |
PHL 327  Philosophy of Peace
PHL 328  Phil of Punishment
PHL 357  Radical Philosophy
PHL 358  Marxist Philosophy
PHL 364  Race, Gender&Phil
PHL 370  Political Philosophy
PHL 371  Phi & Human Rights
PHL 372  Values & Economics
PHL 373  Phi&Cultr Diversty

Philosophy electives (9 hours)

History of Philosophy 15
Select two courses from:
PHL 351  Medievel Philosophy
PHL 353  Kant&19th Cent Phil
PHL 354  20th Century Phil
PHL 361  American Philosophy

Philosophy electives (9 hours)

Science, Technology, and Values 15
PHL 330  Phi of Science

Select one course from:
PHL 306  Phi of Knowledge
PHL 315  Medical Ethics
PHL 316  Engineering Ethics
PHL 319  Information Ethics
PHL 321  Environmnt Ethics
PHL 331  Sci, Objtvy & Values
PHL 332  Technology&Values
PHL 333  Phi & Cognitive Sci
PHL 334  Phi of Ecology

Philosophy electives (9 hours)

Religion, Mind, and Metaphysics 15
PHL 308  Metaphysics
or PHL 311  Phi of Religion

Select one course from:
PHL 309  Phil of Mind
PHL 351  Medievel Philosophy
PHL 355  Asian Philosophy
PHL 356  Christian Philosophy
PHL 360  Existentialism
PHL 365  Islamic Phil& Culture

Philosophy electives (9 hours)

Culture and Human Diversity 15
Select two courses from:
PHL 307  Philosophy and Women
PHL 355  Asian Philosophy
PHL 361  American Philosophy
PHL 363  African Philosophy
PHL 364  Race, Gender&Phil
PHL 365  Islamic Phil& Culture
PHL 373  Phi&Cultr Diversty

Philosophy electives (9 hours)

Arts and Human Expression 15

Select two courses from:
PHL 320  Philosophy of Art
PHL 323  Phi & Literature
PHL 324  Philosophy & Film
PHL 325  Philosophy of Music
PHL 326  Phi of Language

Philosophy electives (9 hours)

Self-Designed 15
Philosophy electives (15 hours)

Liberal Studies Curriculum

ASI 150  Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
L2 Proficiency (Proficiency in a language other than English) 0-11
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Religious Studies 9
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1. Students who anticipate graduate work in philosophy are advised to take PHL 302.

Minor in Philosophy (phl)

Philosophy
PHL 103  Intro To Philosophy 3
PHL 301  Practical Logic 3
or PHL 302  Symbolic Logic

Select one course from:
PHL 350  Classical Greek PHL
PHL 351  Medievel Philosophy
PHL 352  Modern Philosophy
PHL 353  Kant&19th Cent Phil
PHL 354  20th Century Phil

PHL seminar (400 level) 3

Select two PHL courses 6
Total Hours 18

Courses

PHL 103. Intro To Philosophy. 3 Hours
INTRODUCTION TO PHILOSOPHY - 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.
PHL 240. Research Meth & Tech. 1 Hour
RESEARCH METHODOLOGIES AND TECHNOLOGIES - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 301. Practical Logic. 3 Hours
PRACTICAL LOGIC - 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.

PHL 302. Symbolic Logic. 3 Hours
SYMBOLIC LOGIC - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 304. Phil of Human Nature. 3 Hours
PHILOSOPHY OF HUMAN NATURE - The nature of human beings; the functions of consciousness, the possibility of freedom, the sources of values, and the goals of human life. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 306. Phil of Knowledge. 3 Hours
PHILOSOPHY OF KNOWLEDGE - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 307. Philosophy and Women. 3 Hours
PHILOSOPHY AND WOMEN - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 308. Metaphysics. 3 Hours
METAPHYSICS - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 309. Phil of Mind. 3 Hours
PHILOSOPHY OF MIND - 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. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 310. Social Philosophy. 3 Hours
SOCIAL PHILOSOPHY - The concepts of liberty, justice, and equality as they relate to social problems such as punishment and rehabilitation, insanity and responsibility, privacy, population regulation, economic injustice, environmental degradation, discrimination, and reverse discrimination. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 311. Phil of Religion. 3 Hours
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, ASI 112) or PHL 103.

PHL 312. Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 313. Business Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 314. Philosophy of Law. 3 Hours
PHILOSOPHY OF LAW - Major concepts of law to include the nature of law, legal reasoning, liberty, justice, responsibility, punishment. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 315. Medical Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 316. Engineering Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 317. Ethics & Modern War. 3 Hours
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, ASI 112) or PHL 103.

PHL 318. Family Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 319. Information Ethics. 3 Hours
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, ASI 112) or PHL 103.

PHL 320. Philosophy of Art. 3 Hours
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, ASI 112) or PHL 103.

PHL 321. Environmental Ethics. 3 Hours
ENVIRONMENTAL ETHICS - Study of the principal ethical perspectives on the treatment of animals and nature including such issues as agriculture, energy, pollution, and economics; assessment of political responses to current environmental problems. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.
PHL 323. Phil & Literature. 3 Hours
PHILOSOPHY AND LITERATURE - Critical examination of philosophical concepts in selected literary masterpieces, ancient and modern. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 324. Philosophy & Film. 3 Hours
PHILOSOPHY AND FILM - Introduction to philosophical issues and aesthetic theory through a critical reading of texts and examination of selected narrative, documentary, animated, or abstract films. Prerequisite(s): (ASI 111, 112) or PHL 103.

PHL 325. Philosophy of Music. 3 Hours
PHILOSOPHY OF MUSIC - Examination of theories on the meaning of music; experiencing music as composer, performer, and listener; aesthetic criteria; moral effect of music. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 327. Philosophy of Peace. 3 Hours
PHILOSOPHY OF PEACE - Examination of human violence and ethical justifications for war and exploration of resolutions for human conflict in processes such as pacifism, peacemaking, democratic world governance, nonviolent caring, and a sustainable economy. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 328. Phil of Punishment. 3 Hours
PHILOSOPHY OF PUNISHMENT - Critical examination of punishment, through an analysis of various forms of punishment and what they imply about human nature, power, social norms, and moral principles. Prerequisite(s): (ASI 112 or PHL 103.

PHL 330. Phil of Science. 3 Hours
PHILOSOPHY OF SCIENCE - Critical examination of the underpinnings of scientific knowledge, and how it differs from other systems of belief and knowledge, through an analysis and evaluation of various scientific concepts such as scientific laws, explanation, observation, and theory, with an exploration of the methods, presuppositions, and biases of scientific knowledge claims. Prerequisite(s): (ASI 112 or PHL 103.

PHL 331. Sci, Objtvy & Values. 3 Hours
SCIENCE, OBJECTIVITY, AND VALUES - Study of three interrelated issues: the limits of scientific methodology; science as a social institution; and science and human values. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 332. Technology&Values. 3 Hours
TECHNOLOGY AND VALUES - Study of the social impact of technology-scientists’ responsibility; technological change and social change; the ‘technological fix’; democracy and the new technological elite; counter-culture critiques of technology. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 333. Phil & Cognitive Sci. 3 Hours
PHILOSOPHY AND COGNITIVE SCIENCE - Philosophical introduction to recent research in cognitive psychology, artificial intelligence, and neuroscience regarding human, animal, and machine intelligence; the relation between mind, brain, and personhood; and the biology of conscious states. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 334. Phil of Ecology. 3 Hours
PHILOSOPHY OF ECOLOGY - An examination of the epistemological, methodological, ontological, and value issues of ecology, with a focus on how these issues affect the debates in philosophy of science. Prerequisite(s): PHL 103 or ASI 112.

PHL 340. Special Problems. 1-3 Hours
SPECIAL PROBLEMS IN PHILOSOPHY - Examination of perennial and contemporary problems of philosophy. May be repeated when topic changes. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 345. PHL Scholars Sem. 3 Hours
PHILOSOPHY SCHOLARS’ SEMINAR - Study and seminar discussion of selected major philosophical works and the analysis, interpretation, and criticism of these works. Open by permission only to students in the Berry Scholars Program. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 350. Classical Greek PHL. 3 Hours
CLASSICAL GREEK PHILOSOPHY - The Greek origins of Western scientific, philosophical, and political thought; relationships to current thoughts; ideas of the pre-Socratics, Plato, and Aristotle in their cultural contexts. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 351. Medieval Philosophy. 3 Hours
MEDIEVAL PHILOSOPHY - Major philosophical problems from the fourth through the sixteenth 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, ASI 112) or PHL 103.

PHL 352. Modern Philosophy. 3 Hours
MODERN PHILOSOPHY - Development of philosophy in the seventeenth and eighteenth 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, ASI 112) or PHL 103.

PHL 353. Kant&19th Cent Phil. 3 Hours
KANT AND NINETEENTH-CENTURY PHILOSOPHY - Development of philosophy beginning with Kant through the nineteenth century including Kant and philosophers such as Fichte, Schelling, Hegel, Schopenhauer, Nietzsche, James, Peirce, and Frege. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 354. 20th Century Phil. 3 Hours
TWENTIETH-CENTURY PHILOSOPHY - Study of some of the major philosophical movements in the twentieth century including phenomenology, existentialism, critical theory (Frankfurt School), hermeneutics, and analytic philosophy. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 355. Asian Philosophy. 3 Hours
ASIAN PHILOSOPHY - Introduction to Asian philosophy through the study of philosophers, texts, philosophical schools and concepts that have their origins in Asia. Comparisons of various Asian philosophies with each other as well as with western traditions. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 356. Christian Philosophy. 3 Hours
CHRISTIAN PHILOSOPHY - Major issues such as the relation of faith to reason, the relation of science to faith, and the problem of natural law. Christian considerations of practical philosophy and social theory. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 357. Radical Philosophy. 3 Hours
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, ASI 112) or PHL 103.
PHL 358. Marxist Philosophy. 3 Hours
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, ASI 112) or PHL 103.

PHL 360. Existentialism. 3 Hours
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, ASI 112) or PHL 103.

PHL 361. American Philosophy. 3 Hours
AMERICAN PHILOSOPHY - Study of the development of American philosophies in the context of historical interactions among Indigenous, European, African, and Asian worldviews in the Americas. Representatives of classical American pragmatism, such as Peirce, James, Dewey, and Addams will be studied in this context. Prerequisite(s): ASI 112 or PHL 103.

PHL 362. Phil of Language. 3 Hours
PHILOSOPHY OF LANGUAGE - Theories of meaning and reference and their philosophical significance. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 363. African Philosophy. 3 Hours
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, ASI 112) or PHL 103.

PHL 364. Race, Gender&Phl. 3 Hours
RACE, GENDER, AND PHILOSOPHY - 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, ASI 112) or PHL 103.

PHL 365. Islamic Phil& Culture. 3 Hours
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, ASI 112) or PHL 103.

PHL 367. Political Philosophy. 3 Hours
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, ASI 112) or PHL 103.

PHL 368. Phil & Human Rights. 3 Hours
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, ASI 112) or PHL 103.

PHL 372. Values & Economics. 3 Hours
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, ASI 112) or PHL 103.

PHL 373. Phil&Cultr Diversity. 3 Hours
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 375. Ethical Theory. 3 Hours
ETHICAL THEORY - An examination of the significant ethical theories offered by historically significant philosophers along with some contemporary critiques of these theories. The theories examined will include virtue, deontological, and utilitarian approaches. Prerequisite(s): ASI 112 or PHL 103.

PHL 376. Philosophy&Revolutn. 3 Hours
PHILOSOPHY AND REVOLUTION - Philosophy and Revolution.

PHL 377. PHL & Mass Media. 3 Hours
PHILOSOPHY AND MASS MEDIA - Philosophy and Mass Media.

PHL 378. Concept of the Self. 3 Hours
CONCEPT OF THE SELF - Concept of the Self.

PHL 379. Latin American PHL. 3 Hours
LATIN AMERICAN PHILOSOPHY - Latin American Philosophy.

PHL 380. Language&Our World. 3 Hours
LANGUAGE AND OUR WORLD - Language and Our World.

PHL 440. Advanced Problems. 3 Hours
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, ASI 112) or PHL 103.

PHL 451. Sem-Individ Phlsphrs. 3 Hours
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, ASI 112) or PHL 103.

PHL 451. Sem-Cont Epistemolgy. 3 Hours
SEMINAR - CONTEMPORARY EPISTEMOLOGY - Study of recent philosophical work in the theory of knowledge inclusive of skepticism, knowledge and belief, evidence and justification, theories of perception and knowledge, human interests and valuation. Prerequisite(s): (ASI 111, ASI 112) or PHL 103.

PHL 451. Sem-Cont Ethics. 3 Hours
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, ASI 112) or PHL 103.
PHL 463. Sem-Cont Metaphysics. 3 Hours
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, ASI 112) or PHL 103.

PHL 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PHL 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PHL 490. Directed Readings. 1-4 Hours
DIRECTED READINGS - Guided independent study primarily for philosophy majors but open to students who have completed twelve semester hours in philosophy. Normally three semester hours but in certain cases the chairperson may approve one, two, or four semester hours. May be repeated when topic changes. Prerequisite(s): (ASI 111, ASI 112) or PHL 103; permission of department chairperson and instructor.

PHL 492. Directed Research. 3 Hours
DIRECTED RESEARCH - 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, ASI 112) or PHL 103; permission of department chairperson and instructor.

PHL 495. Internship. 1-3 Hours
INTERNSHIP - Supervised practical and professional experience related to philosophy for philosophy majors who have completed prescribed course work. May be repeated to a maximum of three semester hours. Grading Option Two only. Prerequisite(s): ASI 111, ASI 112; PHL 103, PHL 302, PHL 350, PHL 352; one 400-level seminar; permission of department chairperson.

Physics
- Bachelor of Science, Physical Science
- Bachelor of Science, Physics
- Bachelor of Science, Physics- Computer Science
- Minor
  - Physics

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
- Rex L. Berney, Chairperson
- Distinguished Professor: Bueche
- Distinguished Service Professor: O'Hare
- Professors Emeriti: Graham, Kepes, Miner, Yaney
- Professors: Berney, Brecha, Elhamri, Ewbaraye, Pedrotti, Powers
- Associate Professors: Ahouija, Craver, J. Erdei, Smith
- Assistant Professor: Chong
- Lecturers: Kariyawasam, Song
- Lab Instructors: Ballard, L. Erdei, Schaurer

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.

Physical Science

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>CHM 123</td>
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<tr>
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<td>Gen Phy II Ele &amp; Mag</td>
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Breadth Requirements

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<td>Total Hours</td>
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1 At least twelve semester hours in physics.

### Bachelor of Science with a major in Physics (phy)

#### General Physics Concentration

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<td>PHY 207</td>
<td>Gen Phy II Ele &amp; Mag</td>
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<td>PHY 208</td>
<td>Gen Phy III Mech Wavs</td>
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<td>PHY 210L</td>
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<td>PHY 301</td>
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<td>PHY 303</td>
<td>Intermediate Mech I</td>
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<td>PHY 333</td>
<td>Dig&amp;Alog Electrncs</td>
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<td>PHY 390</td>
<td>Intro Quantum Mech</td>
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#### Breadth Requirements

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<td>or CPS 150</td>
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<td>MTH 168</td>
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<td>MTH 169</td>
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<td>MTH 219</td>
<td>Appl Diff Equations</td>
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<td>MTH 310</td>
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<tr>
<td>Total Hours</td>
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### 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.

#### Computer Science 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CPS 150</td>
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<td>3</td>
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</tbody>
</table>
CPS 151  Algorithm&Progrm II
CPS 250  Intro-Comptr Org
CPS 346  Operating Systems I
CPS 350  Data Struct&Algorithm
Three CPS courses (340 level or above)

Mathematics  18
MTH 168  Anly Geom & Calc I
MTH 169  Anly Geom & Calc II
MTH 218  Anly Geom & Calc III
MTH 219  Appl Diff Equations
MTH 310  Lin Alg & Matrices

Physics  27-30
PHY 206  Gen Physics I Mech
PHY 207  Gen Phy II Ele & Mag
PHY 208  Gen Phy III Mec Wavs
PHY 210L  Gen Physics Lab I
PHY 211L  Gen Physics Lab II
PHY 323  Computatnl Physics
PHY 333  Dig&Alog Electrncs
Four PHY courses (300/400 level)

Breadth Requirements
ASI 150  Intr to the Univ Exp  1
Communication Competencies  3-9
Humanities  9
Philosophy and Religious Studies  12
Social and Behavioral Sciences  6
Total Hours - general education courses/academic electives to total at least 120

1 Additional numerical analysis courses are recommended.
2 A senior project involving some application of computers in physics is recommended.

Minor in Physics (phy)

Physics  12
Select four PHY courses (300/400 level)
Total Hours  12

Courses

PHY 100. Freshman Seminar. 0 Hours
SEMINAR - 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.

PHY 105. Phy Sci Energy & Env. 3 Hours
PHYSICAL SCIENCE - ENERGY AND THE ENVIRONMENT - General introduction to principles of physics including motion, energy, thermodynamics, electricity and magnetism, and nuclear physics. Applications of these principles to non-renewable and renewable energy systems and the climate. Intended for business students.

PHY 108. Phy Sci-Light&Color. 3 Hours
PHYSICAL SCIENCE OF LIGHT AND COLOR - Treatment of physical science with emphasis on light, color, and the interaction of light with materials. For nonscience students.

PHY 108L. Light & Color Lab. 1 Hour
LIGHT AND COLOR LABORATORY - Laboratory experiences to accompany PHY 108. Corequisite(s): PHY 108.

PHY 201. General Physics. 3 Hours
GENERAL PHYSICS - Topics from mechanics, thermal and mechanical properties of matter, wave motion and sound, and electricity without the formalism of calculus. First term, each year.

PHY 201L. General Physics Lab. 1 Hour
GENERAL PHYSICS LABORATORY - 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. Corequisite(s): PHY 201 or PHY 206.

PHY 202. General Physics. 3 Hours
GENERAL PHYSICS - 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 Lab. 1 Hour
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. Mod Techncl Physics. 3 Hours
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. Techncl Physics Lab. 1 Hour
TECHNICAL PHYSICS LABORATORY - Laboratory experiences to accompany PHY 203.

PHY 206. Gen Physics I Mech. 3 Hours
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 MTH 168.

PHY 207. Gen Phy II Ele & Mag. 3 Hours
GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM - The basic principles of electricity and magnetism. Three lectures, one recitation each week. Prerequisite(s): PHY 201 or PHY 206. Corequisite(s): MTH 149 or MTH 169.

PHY 208. Gen Phy III Mec Wavs. 3 Hours
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. Gen Physics Lab I. 1 Hour
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. Gen Physics Lab II. 1 Hour
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 220. Energy & Env Physics. 3 Hours
ENERGY AND ENVIRONMENTAL PHYSICS - Introduction to the physical basis of energy systems and the climate. Topics covered will include thermodynamics, planetary radiation balance, heat transfer, basic atmospheric and ocean physics, nuclear energy, renewable energy, modeling of carbon emissions from fossil fuels, simple climate models, monitoring climate change, and mitigation strategies. Prerequisite(s): PHY 206.

PHY 232. Physics of Waves. 3 Hours
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 (may be taken as a corequisite).

PHY 250. Descriptive Astronomy. 3-4 Hours
DESCRIPTIVE ASTROSCOPY - 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 295. Research Particip I. 1 Hour
RESEARCH PARTICIPATION I - Research Participation.

PHY 301. Thermal Physics. 3 Hours
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 PHY 232. Corequisite(s): MTH 219.

PHY 303. Intermediate Mech I. 3 Hours
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 PHY 232. Corequisite(s): MTH 219.

PHY 321. Atom & Nuclear Phy. 3 Hours
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 PHY 232) or permission of instructor.

PHY 323. Computatn Physics. 3 Hours
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 PHY 232).

PHY 333. Dig&Alog Electrns. 3 Hours
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. Intro Quantum Mech. 3 Hours
INTRODUCTION TO QUANTUM MECHANICS - Basic postulates of quantum mechanics with applications made to atomic physics. Prerequisite(s): MTH 219; (PHY 208 or PHY 232). Corequisite(s): MTH 310.

PHY 395. Research Particip I. 1-6 Hours
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. 1-4 Hours
SPECIAL PROBLEMS IN PHYSICS - Special topical courses, laboratory, tutorial, or library work in areas of current interest. Students should consult the composite.

PHY 403. Interm Mechanics II. 3 Hours
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. 3 Hours
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 PHY 232).

PHY 408. Int Elect & Magn I. 3 Hours
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 PHY 232).

PHY 409. Int Elect & Magn II. 3 Hours
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-Mod Physics. 3 Hours
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. Intro to Solid State. 3 Hours
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); PHY 390.

PHY 430. Advanced Lab I. 2 Hours
ADVANCED LAB I - Advanced Lab.

PHY 431. Advanced Lab II. 2 Hours
ADVANCED LAB II - Advanced Lab.

PHY 440. Quantum Mechanics II. 3 Hours
QUANTUM MECHANICS II - Study of selected principles in quantum mechanics. Prerequisite(s): PHY 390.

PHY 450. Senior Project. 3 Hours
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. 1 Hour
SEMINAR - Presentation of papers by undergraduate students, faculty, and a guest lecturer on topics of concern to the modern physicist. Reviews of books and films appropriate to the group.

PHY 477. Honors Thesis. 3 Hours
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 may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PHY 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PHY 495. Research Particip II. 1-6 Hours
RESEARCH PARTICIPATION II - 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. 1-6 Hours
SPECIAL PROBLEMS IN PHYSICS - 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.

Political Science

Majors:
- Bachelor of Arts, Human Rights
- Bachelor of Arts, Political Science

Minors:
- Human Rights
- Political Science

The Department of Political Science offers the Bachelor of Arts with a major in Political Science and the Bachelor of Arts with a major in Human Rights Studies. Minors in political science and human rights studies are also offered.

- A major in political science requires thirty-six semester hours of political science courses.
- A major in human rights studies requires forty-five to fifty-seven semester hours of courses in the humanities and the social sciences.
- A minor in political science consists of fifteen semester hours. Courses selected by students should strengthen academic or career objectives.
- A minor in human rights studies consists of eighteen semester hours. Courses selected 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
- Others developed by the student in conjunction with his or her advisor

Faculty

Jason Pierce, Chairperson
Director of Human Rights Studies Program: Natalie Hudson
Professors Emeriti: Ahern, Fogel, Inscho, Karns, Kerns, Lapitan, Nelson
Professor: Ingram
Associate Professors: Bilocerkowycz, Ensalaco, Ghere, Mortarano Miller, Neeley, Pierce
Assistant Professors: Ambrosius, Budabin, Hudson, Pautz, Watkins
Lecturers: Birdsong, Talbott

Bachelor of Arts with a major in Human Rights Studies (hrs)

The Bachelor of Arts in Human Rights Studies is an integrated pre-professional degree firmly grounded in the traditional liberal arts. Students, faculty, and staff participating in the program enter into it
guided by their fundamental commitment to respect and promote the dignity of each human person. The degree is intended to produce intellectually adept students who are capable of performing rigorous research and conducting high quality analysis of critical questions in the area of human rights studies. It is equally intended to produce thoughtful and transformational servant-leaders who will apply the knowledge and skills obtained in the program to contemporary human rights issues and situations both domestically and internationally. Through the integration of liberal and pre-professional education, the interdisciplinary program prepares distinctive graduates who intend to pursue advanced study and training in the field of human rights, or careers in human rights advocacy and humanitarian assistance. Those graduates will possess the values, knowledge and skills necessary for effective public service in:

- Government agencies
- Non-governmental organizations
- International aid agencies
- Non-profit groups in human rights or humanitarian assistance

Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.

### Human Rights Studies

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<th>Credits</th>
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<td>Hum Rights Advocacy</td>
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<tr>
<td>CMM 355</td>
<td>Rhetoric-Soc Movements</td>
<td>3</td>
</tr>
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<td>HST 312</td>
<td>Age-Democratic Revl</td>
<td>3</td>
</tr>
<tr>
<td>PHL 371</td>
<td>Phil &amp; Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>POL 305</td>
<td>Intro To Public Adm</td>
<td>3</td>
</tr>
<tr>
<td>POL 333</td>
<td>Pol of Human Rights</td>
<td>3</td>
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<tr>
<td>POL 334</td>
<td>Pol-Human Rights II</td>
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<tr>
<td>POL 406</td>
<td>InternatnL Law&amp;Organ</td>
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Select one course from:

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Select one course from three different concentrations: 9

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<td>HST 356</td>
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<tr>
<td>HST 361</td>
<td>US Legl/Const Hst II</td>
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<td>HST 399</td>
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<td>PHL 314</td>
<td>Philosophy of Law</td>
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<td>PHL 317</td>
<td>Ethics&amp;Modern War</td>
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<tr>
<td>PHL 327</td>
<td>Philosophy of Peace</td>
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<tr>
<td>PHL 370</td>
<td>Political Philosophy</td>
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<tr>
<td>PHL 372</td>
<td>Values &amp; Economics</td>
<td></td>
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<tr>
<td>POL 300</td>
<td>Political Issues 1</td>
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<tr>
<td>POL 319</td>
<td>20th Cent Pol Thgt</td>
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<tr>
<td>POL 331</td>
<td>Ntlsm &amp; Ethno Poltics</td>
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<tr>
<td>POL 450</td>
<td>Civil Liberties</td>
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### Political Violence

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>REL 358</td>
<td>Liberation Theology</td>
<td></td>
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<tr>
<td>REL 360</td>
<td>Christian Ethics</td>
<td></td>
</tr>
<tr>
<td>REL 366</td>
<td>The Holocaust</td>
<td></td>
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<tr>
<td>SOC 326</td>
<td>Law &amp; Society</td>
<td></td>
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<tr>
<td>SOC 328</td>
<td>Racial&amp;Eth Minorites</td>
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<tr>
<td>SOC 339</td>
<td>Social Inequality</td>
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<tr>
<td>SOC 345</td>
<td>Soc of Extremism</td>
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<tr>
<td>SOC 368</td>
<td>Immigration</td>
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<tr>
<td>SOC 435</td>
<td>Soc of Globalization</td>
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<tr>
<td>SPN 380</td>
<td>Spn&amp;Ibero-Amr Cinema</td>
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<tr>
<td>SPN 480</td>
<td>Spn&amp;Ibero-Amr Cinema</td>
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### Experiential or Research Requirement

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMM 390</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>HST 496</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>PHL 492</td>
<td>Directed Research</td>
<td></td>
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<tr>
<td>POL 321</td>
<td>Russia&amp;New States</td>
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<tr>
<td>POL 495</td>
<td>Internship</td>
<td></td>
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<tr>
<td>SOC 409</td>
<td>Senior Project</td>
<td></td>
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<tr>
<td>SOC 498</td>
<td>Independent Study</td>
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Select one course from:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMM 390</td>
<td>Independent Study</td>
<td>3</td>
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<tr>
<td>HST 496</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>PHL 492</td>
<td>Directed Research</td>
<td></td>
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<tr>
<td>POL 321</td>
<td>Russia&amp;New States</td>
<td></td>
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<tr>
<td>POL 495</td>
<td>Internship</td>
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</tbody>
</table>

Or complete an Honors Thesis: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 477</td>
<td>Honors Thesis</td>
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<tr>
<td>&amp; CMM 478</td>
<td>Honors Thesis</td>
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<tr>
<td>HST 477</td>
<td>Honors Thesis</td>
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<tr>
<td>&amp; HST 478</td>
<td>Honors Thesis</td>
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<tr>
<td>PHL 477</td>
<td>Honors Thesis</td>
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<tr>
<td>&amp; PHL 478</td>
<td>Honors Thesis</td>
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<tr>
<td>POL 477</td>
<td>Honors Thesis</td>
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<tr>
<td>&amp; POL 478</td>
<td>Honors Thesis</td>
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### Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ASI 150</td>
<td>Intr to the Univ Exp</td>
<td>1</td>
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</tbody>
</table>

Communication Competencies 3-9

Creative and Performing Arts 3

History 6

L2 Proficiency (Proficiency in a language other than English) 0-11

Literature 3

Mathematics (excluding MTH 102, 204, 205) 3

Natural Sciences 12

Philosophy and Religious Studies 12

Social Sciences 12

Total Hours - general education courses/academic electives to total at least 124
1 This course can only be counted when taught as International Political Economy.

2 Majors must demonstrate proficiency in a foreign language by passing a University proficiency examination or by completing a language course at the 141 level or higher with a minimum grade of C in one of the following languages:
   - Arabic
   - French
   - German
   - Italian
   - Mandarin Chinese
   - Russian
   - Spanish

Bachelor of Arts with a major in Political Science (pol)

<table>
<thead>
<tr>
<th>Political Science</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 200 Intro to Pol Science</td>
<td>3</td>
</tr>
<tr>
<td>POL 201 Amer Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POL 202 Intro Comp Politics</td>
<td>3</td>
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<tr>
<td>or POL 214 Intro-Intnlt Polts</td>
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<tr>
<td>POL 207 Political Analysis</td>
<td>3</td>
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<tr>
<td>POL 316 American Pol Thought</td>
<td>3</td>
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<tr>
<td>or POL 317 Dev-Political Theory</td>
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<tr>
<td>or POL 319 20th Cent Pol Thgt</td>
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</tbody>
</table>

Select eight POL courses 1,2 24

Liberal Studies Curriculum

|ASI 150 Intr to the Univ Exp               | 1  |
|Communication Competencies                 | 3-9|
|Creative and Performing Arts               | 3  |
|History                                    | 6  |
|L2 Proficiency (Proficiency in a language other than English) | 0-11|
|Literature                                 | 3  |
|Mathematics (excluding MTH 102, 204, 205)  | 3  |
|Natural Sciences                           | 11 |
|Philosophy and Religious Studies          | 12 |
|Social Sciences                            | 12 |

Total Hours - general education courses/academic electives to total at least 124

1 Including twenty-one semester hours at the 300/400 level.

2 Students earning the B.A. in Political Science may count no more than six semester hours earned on internships (POL 495) toward the fulfillment of the degree requirements in POL. Students may, however, take additional hours of internship credit (POL 495) and count them toward the necessary 124 hours needed for graduation.

Minor in Human Rights Studies (hrs)

The interdisciplinary minor in Human Rights Studies provides students an opportunity to address issues related to human rights from various disciplinary approaches. The universal nature of human rights issues may directly relate to a major, while in other cases this minor will provide an opportunity for broadening one’s exposure to these important topics.

The Human Rights Studies minor requires eighteen semester hours. It is recommended that the required course be taken in the sophomore year. Students should consult with the Director of Human Rights Studies to ensure that the courses selected from the elective pool display a significant degree of coherence. Courses taken from this minor may be applied to other minors and to breadth and general education requirements.

Human Rights Studies

|POL 333 | Pol of Human Rights | 3 |
|POL 334 | Pol-Human Rights II | 3 |
|Select one course from:                      |    |
|PHL 371 | Phi & Human Rights  |    |
|REL 363 | Faith & Justice     |    |
|Select one course from:                      | 3  |
|ANT 325 | Anth of Human Rights|    |
|SOC 371 | Soc of Human Rights |    |
|Select two courses from:                     | 6  |
|ANT 325 | Anth of Human Rights|    |
|ANT 360 | Cultures-South Asia |    |
|ANT 368 | Immigration        |    |
|CJS 336 | Comp Crim Jus Systms|  |
|CMM 355 | Rhetoric-Soc Movements| |
|ECO 460 | Eco Develop & Growth|    |
|HST 312 | Age-Democratic Revl |    |
|HST 334 | Hist Pal-Irl Cflct  |    |
|HST 337 | Hist Afr-19th Cn-Pr |    |
|HST 356 | Women in Third World|   |
|HST 361 | US Legl/Const Hst II|   |
|HST 399 | Hst Biks-US s/1900  |    |
|PHL 314 | Philosophy of Law  |    |
|PHL 317 | Ethics&Modern War  |    |
|PHL 327 | Philosophy of Peace|    |
|PHL 370 | Political Philosophy| |
|PHL 371 | Phi & Human Rights |    |
|PHL 372 | Values & Economics |    |
|POL 300 | Political Issues 3 |    |
|POL 305 | Intro To Public Adm |    |
|POL 319 | 20th Cent Pol Thgt |    |
|POL 331 | Ntlsm & Ethno Poltcs|   |
|POL 406 | Internatl Law&Organ |    |
|POL 450 | Civil Liberties    |    |
|POL 452 | Political Violence |    |
|REL 358 | Liberation Theology|    |
|REL 360 | Christian Ethics   |    |
|REL 363 | Faith & Justice    |    |
|REL 366 | The Holocaust      |    |
|SOC 326 | Law & Society      |    |
|SOC 328 | Racial&Eth Minorities| |
|SOC 339 | Social Inequality  |    |
|SOC 345 | Soc of Extremism   |    |
|SOC 368 | Immigration        |    |
|SOC 371 | Soc of Human Rights|    |
|SOC 435 | Soc of Globalization|  |
1. At least one course must be from CMM, HST, PHL, or REL.
2. Select any course that has not been already used to fulfill other Human Rights Studies Minor requirements.
3. This course can only be counted when the topic is relevant to human rights.

Minor in Political Science (pol)

Political Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POL 201</td>
<td>Amer Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POL 305</td>
<td>Intro To Public Adm.</td>
<td>3</td>
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</tbody>
</table>

Courses

POL 101. Global Politics. 3 Hours
GLOBAL POLITICS - 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.

POL 200. Intro to Pol Science. 3 Hours
INTRODUCTION TO POLITICAL SCIENCE - Study of the dominant theoretical approaches, central questions and concepts, and history of political science. Political Science majors only.

POL 201. Amer Political Systems. 3 Hours
THE AMERICAN POLITICAL SYSTEM - Study of the American political system, its attitudinal and constitutional base, its structure and processes.

POL 202. Intro Comp Politics. 3 Hours
INTRODUCTION TO COMPARATIVE POLITICS - Analysis of major concepts and approaches in the study of comparative government and politics.

POL 207. Political Analysis. 3 Hours
POLITICAL ANALYSIS - Introduction to the basic concepts and processes of research in political science.

POL 214. Intro-Intntnl Poltcs. 3 Hours
INTRODUCTION TO INTERNATIONAL POLITICS - Analysis of the dynamic forces of conflict and cooperation in world politics.

POL 300. Political Issues. 3 Hours
POLITICAL ISSUES - Introductory examination of contemporary political issues selected by the instructor, such topics as welfare, political morality, political campaigns, institutional reform, and political economy.

POL 301. Amer Judicl Process. 3 Hours
THE AMERICAN JUDICIAL PROCESS - 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).

POL 303. State & Local Govt. 3 Hours
STATE AND LOCAL GOVERNMENT - 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.

POL 305. Intro To Public Adm. 3 Hours
INTRODUCTION TO PUBLIC ADMINISTRATION - Basic principles of organization and management in executive departments of government at all levels; questions of planning, leadership, and control.

POL 306. Pub Policy Analysis. 3 Hours
PUBLIC POLICY ANALYSIS - 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.

POL 307. Pol Bureacracy&Reg. 3 Hours
THE POLITICS OF BUREAUCRACY AND REGULATION - 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.

POL 308. Morality Policy. 3 Hours
MORALITY POLICY - Introduction to the morality-based public policy debate with comparison of morality policy (e.g. abortion, drugs, gay rights, pornography) and traditional forms of public policy; study of the moral basis underlying current political topics and debate.

POL 310. Pol Prts, Cmpns&Eltns. 3 Hours
POLITICAL PARTIES, CAMPAIGNS, AND ELECTIONS - Analysis of the history, nature, and function of political parties and their role in the political system in both a domestic and comparative context.

POL 311. Pub Opin & Pol Bhvr. 3 Hours
PUBLIC OPINION AND POLITICAL BEHAVIOR - 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.

POL 313. American Presidency. 3 Hours
THE AMERICAN PRESIDENCY - Study of the American presidency, the development of presidential powers, and its leadership role in the political system.

POL 314. Interest Group Pols. 3 Hours
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 316. American Pol Thought. 3 Hours
AMERICAN POLITICAL THOUGHT - An exploration and critical investigation of selected actors, thinkers, texts, ideas and movements in American political thought and theory from the colonial period to the present. Topics may include the founding, the age of Jackson, the Civil War, Progressivism, Women’s Suffrage, the New Deal, the Cold War, the Civil Rights Movement, the 1960s, and others.

POL 317. Dev-Political Theory. 3 Hours
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 Integrity. 3 Hours
PUBLIC INTEGRITY 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 POL 202 or POL 214) or permission of instructor.

POL 319. 20th Cent Pol Thgl. 3 Hours
TWENTIETH-CENTURY POLITICAL THOUGHT - Analysis of selected political theorists, concepts, and movements from the late nineteenth century to the present. Thinkers and concepts may include Marx, Nietzsche, Sartre, Camus, Freud, Arendt, Strauss, the Frankfurt School, Fanon, Foucault, Rawls, Rorty, existentialism, feminism, colonialism, post-modernity, liberalism, neo-conservatism among others.

POL 320. Western Europe. 3 Hours
COMPARATIVE POLITICS: WESTERN EUROPE - Analysis of governmental institutions and political processes of Western Europe.

POL 321. Russia & New States. 3 Hours
COMPARATIVE POLITICS: RUSSIA AND THE NEW STATES - Analysis of governmental institutions and political processes of Russia and the New States.

POL 323. Latin America. 3 Hours

POL 331. Ntlsm & Ethno Poltics. 3 Hours
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. Pol of Human Rights. 3 Hours
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 334. Pol-Human Rights II. 3 Hours
POLITICS OF HUMAN RIGHTS II - This research seminar examines select topics related to the protection and promotion of human rights. This course is required for all Human Rights Studies majors. The research seminar adopts a case-study approach that enables students to analyze the complex social, economic, cultural, and political factors that impede the full realization of internationally recognized human rights, and to critically evaluate the effectiveness of the advocacy strategies used by inter-governmental human rights bodies and non-governmental human rights organizations. Thus, this seminar is designed to enable students to connect human rights theory and practice. Part I (Overview) provides a more in-depth examination of the material covered in POL 333 (the Politics of Human Rights I). Part II (Case Studies) examines critical contemporary issues and covers the full range of civil, political, economic, social, and cultural rights. Students will collaborate on team research projects and produce a final Human Rights Report containing an analysis of a specific situation of the violation of human rights, findings of fact, and recommendations aimed at rectifying the situation. Students will present and defend their team reports and present in class at the end of the semester. Prerequisite(s): POL 333.

POL 335. US Natnl Sec Policy. 3 Hours
UNITED STATES NATIONAL SECURITY POLICY - Analysis of various political, economic, and military issues and problems relating to U.S. national security.

POL 340. Gender & Internatnl Rel. 3 Hours
GENDER AND INTERNATIONAL RELATIONS - An examination of feminist approaches to the study of international politics and the influence of gender roles on notions of international peace, security, power, development, democracy, human rights, transnational advocacy, and conflict resolution. Prerequisite(s): (POL 101 or POL 214) or permission of instructor.

POL 350. Legislative Politics. 3 Hours
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. 3 Hours
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 365. Disaster Policy & Adm. 3 Hours
DISASTER POLICY AND ADMINISTRATION - Exploration of policy approaches and administrative response strategies related to various phases of disasters and security crises in the U.S. and international settings with attention to human rights issues. Prerequisite(s): POL 201 or permission of instructor.

POL 371. Environmental Policy. 3 Hours
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. US-Latin Am Relatns. 3 Hours
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 210 or POL 214) or permission of instructor.

POL 406. Internatnl Law & Organ. 3 Hours
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 of instructor.

POL 408. Amer Foreign Policy. 3 Hours
AMERICAN FOREIGN POLICY - Critical study of the American foreign policy process and evaluation of the sources of American foreign policy. Prerequisite(s): (POL 201, POL 214) or permission of instructor.

POL 409. Russian Foreign Polcy. 3 Hours
RUSSIAN FOREIGN POLICY - Analysis of the internal and external factors shaping the foreign policies of Russia and the independent republics.
POL 410. Comp Foreign Policy. 3 Hours
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 POL 217) or permission of instructor.

POL 411. Constitutional Law. 3 Hours
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 of instructor.

POL 412. Comparative Law. 3 Hours
COMPARATIVE LAW - Explores how foreign judicial systems protect and promote civil and political rights through different constitutional designs. Prerequisite(s): POL 301.

POL 413. Poltics-Bureau&Regln. 3 Hours
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. 3 Hours
SEMINAR IN POLITICAL SCIENCE - Seminar on current problems and issues in political science. May be taken more than once when content changes. Prerequisite(s): Political Science major; completed POL core courses.

POL 426. Ldrshp-Communities. 3 Hours
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. 1-3 Hours
INDEPENDENT STUDY AND RESEARCH - Individual reading and research on selected topics under faculty direction. Recommended for seniors only. Prerequisite(s): Permission of instructor or department chairperson.

POL 450. Civil Liberties. 3 Hours
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 POL 411) or permission of instructor.

POL 452. Political Violence. 3 Hours
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 POL 333) or permission of instructor.

POL 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

POL 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

POL 479. Selected Topics. 3 Hours
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. 1-9 Hours
INTERNSHIP - Supervised experience in government agencies and programs. Prelaw students are assigned to law firms and judicial chambers. Prerequisite(s): Permission of supervising professor.

POL 497. Service Learning Exp. 1 Hour
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 three semester hours of Social Science 497 credits can count toward graduation. Prerequisite(s): Permission of instructor. Corequisite(s): A 300-400 Political Science course.

Prelaw

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, preparatory services, and access to resources 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, exposition and argumentation, persuasion, and 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 systems, 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 (through the Political Science department) 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
Laura H. Hume (History), Director
Alakkad (Engineering), Becker (Sociology), Berry (Psychology), Carter (History), Flockerzie (History), Frasca (Economics, Business Administration), Hume (History), Ingram (Political Science), Kimbrough (English), Payne (Philosophy), Pierce (Political Science), Robinson (Biology), Russo (Education and Allied Professions), Yoder (Communication)

Courses
PLW 301. Mock Trial I. 1 Hour
MOCK TRIAL I - Practice and performance of attorney and witness roles for Mock Trial National Competition case. Repeatable up to four semester hours.

PLW 302. Mock Trial II. 1 Hour
MOCK TRIAL II - Practice and performance of attorney and witness roles for Mock Trial Regional and National competitions. Repeatable up to four semester hours. Prerequisite(s): PLW 301; invitation by mock trial coaches.

Premedicine/Predentistry
Majors:

• Bachelor of Science, Premedicine
• Bachelor of Science, Predentistry

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 Prelaw Program 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 for 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
Kathleen C. Scheltens, Director
Abeida (Mathematics), Ahoujja (Physics), Burky (Biology), Church (Chemistry), Craver (Physics), J. Erdelj (Physics), Friese (Biology), Hansen (Biology), Johnson (Chemistry), Kango-Singh (Biology), Krane (Biology), Loper (Chemistry), Nielsen (Biology), Rowe (Biology), Smith (Physics), Singh (Biology), Swavey (Chemistry), T. Williams (Biology), S. Wright (Biology)

Bachelor of Science in Predentistry (den)

Premedicine

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<tr>
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<tr>
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<tr>
<td>BIO 152</td>
<td>Concepts of Bio II</td>
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<tr>
<td>&amp; 152L</td>
<td>and Concepts-Bio Lab II</td>
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<td>Course Code</td>
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<td>or MTH 168</td>
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<td>and Gen Phy II Ele &amp; Mag</td>
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<td>&amp; PHY 208</td>
<td>and Gen Phy III Mec Wavs</td>
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<td>MTH 367</td>
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<td>BIO 445</td>
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<td>BIO 460</td>
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<td>BIO 462</td>
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<td>BIO 466</td>
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<td>BIO 470</td>
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<tr>
<td>General electives</td>
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</table>

### Breadth Requirements

- **ASI 150** Int to the Univ Exp 1
- **ENG elective** 6
- **Arts Study** 3
- **Communication Competencies** 3-6
- **History** 6
- **Philosophy and Religious Studies** 7
- Social and Behavioral Sciences 12
- **Total Hours - general education courses/academic electives to total at least** 120

1. Students with a weak background should take MTH 137 and MTH 138, followed by MTH 149. Well qualified students are advised to take MTH 168-MTH 169.
2. Well qualified students are strongly advised to take PHY 206-PHY 207-PHY 208 lecture sequence with PHY 201L and PHY 202L.
3. The elective courses must be directly related to the primary field of interest.
4. Only general elective courses can be taken under Grading Option Two.
5. Courses in graphic design, studio art, or performing arts are recommended.
6. Select ENG elective from among ENG 203, ENG 204, ENG 205, ENG 272, ENG 316, or any 300-level General Education ENG elective. ENG 373, when content is Medical Writing, is recommended.
7. One PHL or REL elective must be an ethics course. Select PHL 312, PHL 315, REL 365, REL 367.

### Bachelor of Science in Premedicine (med)

#### Premedicine

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 151</td>
<td>Concepts of Bio I</td>
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<tr>
<td>&amp; 151L</td>
<td>and Concepts-Bio Lab I</td>
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<tr>
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<td>and Introductory Calc II</td>
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<tr>
<td>or MTH 168</td>
<td>Anly Geom &amp; Calc I</td>
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<tr>
<td>&amp; MTH 169</td>
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Well qualified students are strongly advised to take PHY 206-PHY 207-PHY 208 lecture sequence with PHY 201L and PHY 202L.

The elective courses must be directly related to the primary field of interest.

Only general elective courses can be taken under Grading Option Two.

Select ENG elective from among ENG 203, ENG 204, ENG 205, ENG 272, ENG 316, or any 300-level General Education ENG elective. ENG 373, when content is Medical Writing, is recommended.

One PHL or REL elective must be an ethics course. Select from among PHL 312, PHL 315; REL 360, REL 367.

Courses

MED 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MED 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

Psychology

Majors:
- Bachelor of Arts, Psychology
- Bachelor of Science, Psychology

Minor:
- Psychology

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, PSY 216, and PSY 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>Introductory Psych</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Elementary Statistic</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217</td>
<td>Expermntl Psychology</td>
<td>3</td>
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</table>

and any two courses from each of the two core groupings:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSY 321</td>
<td>Cognitive Processes</td>
<td>3</td>
</tr>
<tr>
<td>PSY 322</td>
<td>Learning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 323</td>
<td>Psy of Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSY 422</td>
<td>Physiological Psy</td>
<td>3</td>
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<thead>
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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
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<tr>
<td>PSY 351</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 361</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 363</td>
<td>Abnormal Psychology</td>
<td>3</td>
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</table>

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**

Carolyn Roecker Phelps, Chairperson

Professors Emeriti: Allik, Biers, Butter, DaPolito, Korte, Kuntz, Moroney

Professors: Eggemeier, Polzella, Reeb

Associate Professors: Bauer, Crutcher, Elvers, Katsuyama, Kirschman, Roecker Phelps, Zois

Assistant Professors: Davis, Dixon, Goodnight, Kunz, Montoya, O'Mara

Visiting Assistant Professor: Berry

Lecturers: Engle, Farnsworth, Layman-Guadalupe, Rodriguez

**Bachelor of Arts with a major in Psychology (psy)**

**Psychology**

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>PSY 216</td>
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<td>PSY 217</td>
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Select two courses from:

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<tr>
<td>PSY 323</td>
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**Bachelor of Science with a major in Psychology (psy)**

**Psychology**

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<td>PSY 323</td>
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**Breadth Requirements**

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<td>or MTH 148</td>
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<td>Introductory Calc I</td>
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<td>or MTH 168</td>
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**PSY electives**

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<td>PSY 477</td>
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<td>0-11</td>
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<tr>
<td>PSY 490</td>
<td>Child Psychology</td>
<td>0-11</td>
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<td>PSY 493</td>
<td>Personality</td>
<td>0-11</td>
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<td>PSY 494</td>
<td>Abnormal Psychology</td>
<td>0-11</td>
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<tr>
<td>PSY 497</td>
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<td>0-11</td>
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</table>

No more than a total of six hours of PSY 352, PSY 477, PSY 478, PSY 490, PSY 493, PSY 494 and/or PSY 497 may count toward the thirty-three semester hours required in PSY for the major.

Selection of MTH 207 is strongly encouraged.
MTH 207  Intro to Statistics
MTH 137  Calc I with Review
or MTH 148  Introductory Calc I
or MTH 168  Anly Geom & Calc I

Communication Competencies  3-9
Humanities  9
Natural Sciences  24
Philosophy and Religious Studies  12
Social and Behavioral Sciences (excludes PSY courses)  6

Total Hours - general education courses/academic electives to total at least 120

1  No more than a total of six hours of PSY 352, PSY 477, PSY 478, PSY 490, PSY 493, PSY 494 and/or PSY 497 may count toward the thirty-three semester hours required in PSY for the major.
2  The Mathematics requirement may also be satisfied by taking MTH 137 & MTH 138, or MTH 148 & MTH 149, or MTH 168 & MTH 169.
3  Two three-semester hour natural science courses (BIO, CHM, GEO, PHY) with accompanying laboratories are required. The remaining sixteen 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.

Minor in Psychology (psy)

Psychology

PSY 101  Introductory Psych  3
Select one course from:
  PSY 321  Cognitive Processes  3
  PSY 322  Learning
  PSY 323  Psy of Perception
  PSY 422  Physiological Psy

Select one course from:
  PSY 341  Social Psychology
  PSY 351  Child Psychology
  PSY 361  Personality
  PSY 363  Abnormal Psychology  3

Select three PSY courses (300/400 level)  9

Total Hours  18

1  Only three semester hours of PSY 352, PSY 490, PSY 493, PSY 494, and/or PSY 497 may count toward the minor.

Courses

PSY 101. Introductory Psych. 3 Hours
INTRODUCTORY PSYCHOLOGY - 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.

PSY 216. Elementary Statistic. 3 Hours
ELEMENTARY STATISTICS - Basic probability and applied statistics: measures of central tendency and dispersion, sampling, estimation, hypothesis testing, tests between means, linear regression, correlation, and ANOVA. Prerequisite(s): MTH 102 or higher; PSY 101.

PSY 217. Expermntl Psychology. 3 Hours
EXPERIMENTAL PSYCHOLOGY - 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. Prerequisite(s): PSY 101, PSY 216.

PSY 251. Hum Growth & Develop. 3 Hours
HUMAN GROWTH AND DEVELOPMENT - 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. Prerequisite(s): PSY 101.

PSY 321. Cognitive Processes. 3 Hours
COGNITIVE PROCESSES - Information-processing approach to attention, perception, memory, imagery, and thought. Theoretical structures including neuron modeling of higher cognitive and experimental processes. Prerequisite(s): PSY 101.

PSY 321L. Cognitv Process Lab. 1 Hour
COGNITIVE PROCESSES LABORATORY - In-depth discussion of seminal research in cognition. Collection, analysis, and interpretation of data. Prerequisite(s): (PSY 101, PSY 216, PSY 217, PSY 321) or permission of instructor.

PSY 322. Learning. 3 Hours
LEARNING - Foundations of the learning process. Classical and instrumental paradigms and variants of each considered in preparation for investigations of complex learning. Prerequisite(s): PSY 101.

PSY 323. Psy of Perception. 3 Hours
PSYCHOLOGY OF PERCEPTION - Introduction to major theoretical and experimental work in perception, including visual, auditory, proprioceptive, and other sensory systems. Prerequisite(s): PSY 101.

PSY 333. PSY Tests&Measurmnts. 3 Hours
PSYCHOLOGICAL TESTS AND MEASUREMENTS - 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. Prerequisite(s): (PSY 101, PSY 216) or equivalent.

PSY 334. Industrial Psychology. 3 Hours
INDUSTRIAL PSYCHOLOGY - Introduction to modern efforts to improve human performance in industrial organizations and society; selection and placement of employees, morale, training, and incentives. Prerequisite(s): PSY 101.

PSY 341. Social Psychology. 3 Hours
SOCIAL PSYCHOLOGY - Survey of major theoretical and experimental work in the field; attitudes, conformity, emotions, group dynamics.

PSY 344. Interprsnl Relations. 3 Hours
INTERPERSONAL RELATIONSHIPS - Social psychological research in nonverbal behavior, social exchange, self-disclosure, and interpersonal attraction and how these are related to developing relationships. Prerequisite(s): PSY 101.
PSY 351. Child Psychology. 3 Hours
CHILD PSYCHOLOGY - Study of psychological processes from the developmental point of view; changes in perception, cognition, emotion, and social behavior from infancy to adolescence. Prerequisite(s): PSY 101.

PSY 352. Fld Exper-Chld Psy. 1 Hour
FIELD EXPERIENCE IN CHILD PSYCHOLOGY - Practical experience with a community agency providing instructional, recreational, or therapeutic services. Volunteer four to five hours weekly. Prerequisite(s): PSY 101; PSY 351 (may be taken as a corequisite).

PSY 353. PSY Adult Dev/Aging. 3 Hours
THE PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING - 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. Prerequisite(s): PSY 101.

PSY 355. Devlp Psychpath. 3 Hours
DEVELOPMENTAL PSYCHOPATHOLOGY - Survey of developmental theory and research related to the psychopathology of infants, children, and adolescents. Focus is on etiology, identification, and intervention. Prerequisite(s): (PSY 101, PSY 351) or permission of instructor.

PSY 361. Personality. 3 Hours
PERSONALITY - 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. Review of clinical and experimental findings. Prerequisite(s): PSY 101.

PSY 363. Abnormal Psychology. 3 Hours
ABNORMAL PSYCHOLOGY - Patterns of disordered behavior; social, psychological, and physiological factors; theoretical explanations of abnormal behavior. Prerequisite(s): PSY 101.

PSY 364. Psychotherapy. 3 Hours
PSYCHOTHERAPY - Survey of current types of psychotherapy. Emphasis on similarities and differences in underlying theories of behavioral change and associated techniques. Prerequisite(s): PSY 101.

PSY 366. Health Psychology. 3 Hours
HEALTH PSYCHOLOGY - 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.

PSY 368. Community Psychology. 3 Hours
COMMUNITY PSYCHOLOGY - The application of psychological principles to the understanding and prevention of prevalent community problems including teen pregnancy, school violence, mental illness, substance abuse, homelessness and poverty. Prerequisite(s): PSY 101.

PSY 375. Psychlgy of the Arts. 3 Hours
PSYCHOLOGY OF THE ARTS - 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.

PSY 410. Questionnaire Design. 3 Hours
QUESTIONNAIRE DESIGN - 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 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 Psy. 3 Hours
PHYSIOLOGICAL PSYCHOLOGY - Neurophysiological analysis of attention, sensation, perception, emotion, motivation, and learning. Electrophysiological methods are discussed. Prerequisite(s): PSY 101.

PSY 431. Interwng & Counslng. 3 Hours
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. 3 Hours
HUMAN FACTORS - Students learn methods to improve the interface between humans and their environment. Human characteristics are studied to determine the best way to design the task, product, workstation, or other environmental features to accommodate the human. Students in the School of Engineering must have junior or senior status.

PSY 443. Psychology of Women. 3 Hours
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. Environmtnl Psychlgy. 3 Hours
ENVIRONMENTAL PSYCHOLOGY - Study of the effects of the physical and social environment on human behaviors, attitudes, and affective responses. Prerequisite(s): (PSY 101, PSY 341) or permission of instructor.

PSY 445. Tech,Envrnmnt,Behavr. 3 Hours
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. Psych for Ministry. 3 Hours
PSYCHOLOGY FOR MINISTRY - Human development and adjustment, interpersonal communication, and the psychology of religion. Prerequisite(s): Acceptance into the Lay Ministry Program or permission of instructor.

PSY 451. PSY of Religion. 3 Hours
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 Dev-Chldrn. 3 Hours
COGNITIVE DEVELOPMENT IN CHILDREN - Major approaches to the study of cognitive development; attentional and meditational development in children’s learning, memory, and problem solving; language development and Piaget’s theory. Prerequisite(s): (PSY 101, PSY 351) or permission of instructor.
PSY 457. Tvl/Effects on Chldrn. 3 Hours
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. Curr Impl-Drug Depnd. 3 Hours
CURRENT IMPLICATIONS OF DRUG DEPENDENCY - Survey of effects, symptoms, treatment, causalities, 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. 3 Hours
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. Hst of Psychology. 3 Hours
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. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

PSY 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

PSY 490. Internship-Psychology. 1-6 Hours
INTERNSHIP IN PSYCHOLOGY - Supervised experience arranged on an individual basis in appropriate settings. For junior or senior psychology majors who have completed prescribed course work only. Consult internship director for details. May be repeated up to six semester hours. Grade Option Two only.

PSY 493. Independent Study. 1-6 Hours
INDEPENDENT STUDY - Problems of special interest investigated under faculty direction. Area and criteria for evaluation to be specified prior to registration. May be repeated up to six semester hours. Prerequisite(s): Permission of instructor.

PSY 494. Readings. 1-6 Hours
READINGS IN PSYCHOLOGY - 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 up to six semester hours. Prerequisite(s): Permission of instructor.

PSY 495. Special Top-Psych. 1-3 Hours
SPECIAL TOPICS IN PSYCHOLOGY - Topics of special interest to faculty and students; intensive critical evaluation of appropriate literature. Prerequisite(s): Permission of instructor.

PSY 497. Service Learning Exp. 1 Hour
SERVICE LEARNING EXPERIENCE - 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 level Psychology course.

Religious Studies
Major:
• Bachelor of Arts, Religious Studies

Minors:
• Religious Studies
• Religious Studies- Catechesis

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 traditions 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, which includes REL 103 (or REL 198 or ASI 110). At least three semester hours are to be at the 400-level.

A minor in Catechesis consists of nineteen semester hours, not including REL 103 (or REL 198 or ASI 110.)
Faculty
Daniel Speed Thompson, Chairperson
Professors Emeriti: Anderson, Buby, Burns, Friedland, Hater, L’Heureux, Martin, Thimmes
Professors: Barnes, Branick, Doyle, Inglis (Philosophy), Levering, Miller, Portier, Roberts, Trolinger (History), Zukowski
Associate Professors: Bennett, Johnson, Johnston, Kallenberg, Moore, Orji, Smith, Thompson, Yocum
Assistant Professors: Bunta, Kozar, Salih
Lecturers: Diaz, Luzarraga

Bachelor of Arts with a major in Religious Studies (rel)

<table>
<thead>
<tr>
<th>Religious Studies</th>
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<tbody>
<tr>
<td>ASI 110</td>
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<tr>
<td>or REL 103</td>
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</tr>
<tr>
<td>REL 490</td>
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<td>Six REL semester hours (400 level)</td>
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<tr>
<td><strong>Ministry</strong></td>
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<tr>
<td>REL 315</td>
<td>The Gospels</td>
</tr>
<tr>
<td>REL 323</td>
<td>Hst-Christianity I</td>
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<tr>
<td>or REL 324</td>
<td>Hst-Christianity II</td>
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<tr>
<td>REL 360</td>
<td>Christian Ethics</td>
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<tr>
<td>REL 437</td>
<td>Significance-Jesus</td>
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<tr>
<td>REL 440</td>
<td>The Church</td>
</tr>
<tr>
<td>REL 443</td>
<td>The Sacraments</td>
</tr>
<tr>
<td>REL 485</td>
<td>Lay Ministry</td>
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<td>Select one course in each: Old Testament, world religions, religion and culture</td>
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<tr>
<td><strong>Catholic Schools</strong></td>
<td>30</td>
</tr>
<tr>
<td>REL 323</td>
<td>Hst-Christianity I</td>
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<tr>
<td>or REL 324</td>
<td>Hst-Christianity II</td>
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<tr>
<td>REL 327</td>
<td>US Religious Expr</td>
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<td>or REL 328</td>
<td>US Cath Experience</td>
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<td>or REL 329</td>
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<td>REL 360</td>
<td>Christian Ethics</td>
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<td>or REL 487</td>
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<tr>
<td>Select one course in each: Old Testament, New Testament, world religions, religion and culture; two courses in systematic theology</td>
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<td><strong>Graduate School Preparation</strong></td>
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<tr>
<td>REL 323</td>
<td>Hst-Christianity I</td>
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<td>REL 437</td>
<td>Significance-Jesus</td>
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<td>REL 440</td>
<td>The Church</td>
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<td>or REL 443</td>
<td>The Sacraments</td>
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<tr>
<td>Select one course in each: Old Testament, New Testament, ethics, world religions, religion and culture, systematic theology</td>
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<td><strong>World Religions</strong></td>
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<tr>
<td>REL 323</td>
<td>Hst-Christianity I</td>
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<tr>
<td>or REL 324</td>
<td>Hst-Christianity II</td>
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<td>Select three courses from:</td>
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<td>REL 304</td>
<td>Hinduism</td>
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<tr>
<td>REL 305</td>
<td>Eastern Orthodoxy</td>
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<tr>
<td>REL 306</td>
<td>Buddhism</td>
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<td>REL 307</td>
<td>Judaism</td>
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<td>REL 308</td>
<td>Islam</td>
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<tr>
<td>Select one course in each: Old Testament, New Testament, ethics, systematic theology, religion and culture</td>
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<td><strong>REL Elective</strong></td>
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<td><strong>General</strong></td>
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<tr>
<td><strong>LIBERAL STUDIES CURRICULUM</strong></td>
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<tr>
<td>ASI 150</td>
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<td>Communication Competencies</td>
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<td>Creative and Performing Arts</td>
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<td>History</td>
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<td>L2 Proficiency (Proficiency in a language other than English)</td>
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<td>Literature</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<td>Philosophy</td>
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<td>Social Sciences</td>
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<td>Total Hours - general education courses/academic electives to total at least</td>
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</tr>
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<td>1 Or equivalent course.</td>
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Minor in Religious Studies (rel)

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<th>Religious Studies</th>
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<tbody>
<tr>
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<tr>
<td>Total Hours</td>
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<tr>
<td>1 At least three semester hours at the 400 level.</td>
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</table>

Minor in Religious Studies-Catechesis (Cte)

The Minor in Religious Studies - Catechesis (CTE) offers students an excellent opportunity to prepare to teach religion (catechesis) in Catholic schools, or parish ministry today. The minor is grounded in the official principles of catechesis required by the United States Conference of Catholic Bishops. The minor incorporates the basic courses required by most dioceses across the country for achieving diocesan certification in content, methodology and praxis experiences. It is open to all students who desire to engage in a religion teaching ministry either on a full-time professional or a volunteer basis following graduation.

<table>
<thead>
<tr>
<th>Religious Studies - Catechesis</th>
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<tbody>
<tr>
<td>REL 328 US Cath Experience 2</td>
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<tr>
<td>Forum for Young Catechetical Leaders</td>
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<td>REL 281 Forum Cat Lead I</td>
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<td>REL 282 Forum Cat Lead II</td>
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<td>REL 283 Forum Cat Lead III</td>
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<td>REL 284 Forum Cat Lead IV</td>
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<td>Select one Liturgy course from:</td>
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<td>REL 356 Chr Tradition-Prayer</td>
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</table>
introduction to religion - examination of the nature of religion, comparative aspect of religion, and the function of religion as a source of interpretation of life. the 'catholic option' takes the majority of its perspectives and examples about religious beliefs and practices from the roman catholic tradition. the 'scripture option' takes the majority of its perspectives and examples about religious beliefs and practices from scriptural traditions.

REL 198. REL scholars sem. 3 hours
religious studies scholars' seminar - 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 210. Intro to scripture. 1 hour
introduction to scripture - an introductory overview of Christian scripture that is foundational for Old and New Testament online courses.

REL 211. Intro to old test. 1 hour
introduction to the old testament - study of contemporary Old Testament studies to learn how to read a biblical text in terms of its literary qualities and cultural influences on interpretations.

REL 212. Intro to new test. 1 hour
introduction to the new testament - introduction to the New Testament with a focus on the text's cultural contexts, literary composition, theological themes, and pastoral applications.

REL 260A. Cath soc teach I. 1 hour
Catholic social teaching I - the first of two courses that provide background on Catholic social teaching as articulated in the Catechesis of the Catholic Church and Episcopal documents.

REL 260B. Cath soc teach II. 1 hour
Catholic social teaching II - the second of two courses that provide background on Catholic social teaching as articulated in the Catechesis of the Catholic Church and Episcopal documents. Prerequisite(s): REL 260A.

REL 281. Forum cat lead I. 1 hour
Forum for catechetical leaders I - study of key themes of The National Directory for Catechesis regarding 'the Art of Communicating Faith: Scripture and Tradition'. Themes include (a) Effective Catechesis, (b) Four Pillars of Our Catholic Faith, (c) Integrating Scripture in Catechetical Ministry, and (d) Integrating Liturgy and Liturgical Experiences in Catechetical Ministry. Prerequisite(s): ASI 111 or REL 103.

REL 282. Forum cat lead II. 1 hour
Forum for catechetical leaders II - study of key themes of The National Directory for Catechesis regarding 'Liturgy, Popular Devotions, Literature and the Religious Imagination'. Themes include (a) Storytelling, (b) Popular Devotions and Faith Experiences, (c) Role of Mary in Catechesis, and (d) Diverse Religious Traditions and the Quest for God. Prerequisite(s): ASI 111 or REL 103.

REL 283. Forum cat lead III. 1 hour
Forum for catechetical leaders III - study of key themes of The National Directory for Catechesis regarding 'Discipleship (Catholic Moral Life), Catholic Social Teachings and Catechetical Planning'. Themes include (a) Developing a Pastoral Catechetical Plan, (b) Call and Challenge of Discipleship, (c) Catholic Social Teachings, and (d) Communications Technology and Catechesis. Prerequisite(s): ASI 111 or REL 103.

REL 284. Forum cat lead IV. 1 hour
Forum for catechetical leaders IV - study of key themes of The National Directory for Catechesis regarding: 'Discipleship (Catholic Moral Life), Catholic Social Teachings and Catechetical Planning'. Themes include (a) Developing a Pastoral Catechetical Plan, (b) Call and Challenge of Discipleship, (c) Catholic Social Teachings, and (d) Communications Technology and Catechesis. Prerequisite(s): ASI 111 or REL 103.

REL 304. Hinduism. 3 hours
Hinduism - 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, ASI 112 or equivalent) or (REL 103 or 198).

REL 305. Eastern orthodoxy. 3 hours
Eastern orthodoxy - 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, ASI 112 or equivalent) or (REL 103 or REL 198).
REL 306. Buddhism. 3 Hours
Buddhism - 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 twentieth century. Parallels and contrasts with the Christian tradition. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 307. Judaism. 3 Hours
Judaism - Basic introduction to Judaism: its history, its faith, its worship. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 308. Islam. 3 Hours
Islam - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 309. Afro-Latin Religions. 3 Hours
Afro-Latin Religions - The study of Voudou, Santeria and other religions which arose when the religious traditions of West Africa were transplanted to the Americas and the Caribbean where practitioners encountered Christianity. These religions' historical and contemporary forms as well as issues of syncretism and church-state relations are considered. Prerequisite(s): ASI 111 or (REL 103 or REL 198).

REL 310. The Pentateuch. 3 Hours
The Pentateuch - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 311. The Prophets. 3 Hours
The Prophets - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 312. Psalms & Wisdom Lit. 3 Hours
The Psalms and Wisdom Literature - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 315. The Gospels. 3 Hours
The Gospels - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 316. New Testmnt Theolgs. 3 Hours
New Testament Theologies - 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 Christian faith today. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 318. Studies in Paul. 3 Hours
Studies in Paul - 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. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 319. Book of Revelation. 3 Hours
The Book of Revelation - Detailed critical analysis of various biblical apocalyptic texts as found in Judaism and early Christianity. Focus on the Book of Revelation against the background of other biblical and intertestamental apocalyptic texts. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 323. Hst-Christianty I. 3 Hours
History of Christianity I (100-1100) - 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. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 324. Hst-Christianty II. 3 Hours
History of Christianity II (1100-Present) - 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, eccumenism, and Vatican II. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 326. Protestant Christnty. 3 Hours
Protestant Christianity - Survey of the development of Protestant thought from the Reformation. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 327. US Religious Expr. 3 Hours
U.S. Religious Experience - 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. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 328. US Cath Experience. 3 Hours
U.S. Catholic Experience - The growth and development of Catholic christianity in the U.S.; its interaction with America, its culture, and its people. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).
REL 329. African Amer Rel. 3 Hours
AFRICAN-AMERICAN RELIGION - 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. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 344. Christian Marriage. 3 Hours
CHRISTIAN MARRIAGE - Analysis of the sanctifying dignity of Christian marriage as a sacrament and commitment to share in the divine creative plan. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 352. Undrstnd Sacred Mus. 3 Hours
UNDERSTANDING SACRED MUSIC AND WORSHIP IN THE LOCAL CHURCH - Focus on the important relationship between music and worship in the life of the church with an emphasis on major contemporary trends in sacred music and work. An historical overview of music and worship with biblical foundations for both are provided. Prerequisite(s): REL 103 (ASI 110/120).

REL 356. Chr Tradition-Prayer. 3 Hours
THE CHRISTIAN TRADITION OF PRAYER - 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. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 358. Liberation Theology. 3 Hours
LIBERATION THEOLOGY - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 360. Christian Ethics. 3 Hours
CHRISTIAN ETHICS - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 362. Chr Family Values&TV. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 363. Faith & Justice. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 364. Current Moral Issues. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 365. Chr Ethics&Envirn. 3 Hours
CHRISTIAN ETHICS AND THE ENVIRONMENT - Christian ethic of relationality 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 366. The Holocaust. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 367. Chr Ethics&Hlth Care. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 368. Chr Ethics&Bus World. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 369. Chrstn Ethics & Engr. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 372. Religion & Film. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 373. Religion&Literature. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 374. Religion & the Arts. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 375. Religion & Science. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).
REL 376. Theol& Soc Sciences. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 377. In Jnry: Myth, Bibl&Lt. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 383. Phil of Rel Educ. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 399. Rdgs in Rel Studies. 1-3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 425. Augustine. 3 Hours
AUGUSTINE - The life and work of Augustine of Hippo (354-430), a major theologian of Western Christianity. His influence is strongly felt in both Protestant and Catholic traditions in areas of sexual ethics, church-state relations, Trinitarian and sacramental theology. Prerequisite(s): REL 103.

REL 429. Modern Catholicism. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 437. Significance-Jesus. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 440. The Church. 3 Hours
THE CHURCH - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 441. Theology of Mary. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 442. God and Atheism. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 443. The Sacraments. 3 Hours
THE SACRAMENTS - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 444. God-Christn Tradtn. 3 Hours
GOD IN CHRISTIAN TRADITION - 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, ASI 112 or equivalent) or (REL 103 or REL 198); PHIL 103.

REL 446. Chrstn Liturgy. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 447. Sel Cath Doctrines. 3-4 Hours
SELECTED CATHOLIC DOCTRINES - Detailed study of several important current theological questions primarily from a Catholic systematic and historical perspective. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 449. Aquinas. 3 Hours
AQUINAS - Theology of Aquinas including: Trinity, human nature, providence, grace, virtue, Christ, and sacraments. Some attention given to historical context and contemporary interpretation, but the main focus will be reading and understanding the Summa. Prerequisite(s): REL 103.

REL 471. Women and Religion. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 472. Ecology & Religion. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 474. Women-Global Church. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).
REL 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

REL 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

REL 484. Practicum. 3 Hours
PRACTICUM - Supervised in-service experience in an area of religious education chosen by the student. By permission only. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 485. Lay Ministry. 3 Hours
LAY MINISTRY - 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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 487. Rel Ed Thry&Prac. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 488. Spirituality&Rel Educ. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198).

REL 490. Capstone Seminar. 3 Hours
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, ASI 112 or equivalent) or (REL 103 or REL 198); junior or senior standing.

REL 492. Special Topics. 1-3 Hours
SPECIAL TOPICS - Concentrated study of issues and subjects pertinent to religion. May be repeated when topic changes. Prerequisite(s): (ASI 111, ASI 112 or equivalent) or (REL 103 or REL 198).

Sociology, Anthropology, and Social Work

Major:
- Bachelor of Arts, Sociology

Minors:
- Sociology
- Anthropology
- Social Work

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. The sociology major program is also offered in India in conjunction with the Marianists. The requirements for majoring in sociology are stated in the outline below. Criminal justice studies is also one of the majors listed in this department. View CJS program requirements.

The minors in sociology, anthropology, and social work consist of fifteen semester hours. The minor in criminal justice studies consists of eighteen semester hours.

Faculty
Laura M. Leming, F.M.I., Chairperson
Professors: Curran, Davis-Berman, Donnelly, L. Majka, T. Majka, Miller
Associate Professors: Becker, Jipson, Leming, Picca
Assistant Professors: Cassiman, Dasgupta, Forbis, Longazel, Thompson-Miller
Lecturers: Holcomb, Kim, Litka

Bachelor of Arts with a major in Sociology (soc)

Sociology

SOC 101 Prin of Sociology 3
or SOC 204 Mod Social Problems
SOC 208 Social Resrch Meths 3
SOC 303 Modern Social Theory 3
SOC 308 Data Analysis 3
SOC 351 Urban Sociology 3
SOC 408 Sr Project Design 1
SOC 409 Senior Project 3

Select six SOC courses 1 18

Liberal Studies Curriculum

ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
L2 Proficiency (Proficiency in a language other than English) 0-11
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences (excludes SOC courses) 12
Total Hours - general education courses/academic electives to total at least 124

1 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.

Anthropology

ANT 150. Cultural Anthropology. 3 Hours
ANT 300. Evolution-People & Culture. 3 Hours
ANT 306. Culture and Power. 3 Hours
ANT 310. Culture & Personality. 3 Hours
ANT 315. Language and Culture. 3 Hours
ANT 320. Anthropology of Childhoods. 3 Hours
ANT 325. Anthropology of Human Rights. 3 Hours
ANT 335. Urban Anthropology. 3 Hours
ANT 336. Epidemics, Power & Human Condition. 3 Hours
ANT 352. Cultures-Latin America. 3 Hours

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.

Social Work

Select fifteen SWK semester hours 2 15

Total Hours 15

1 No more than six semester hours of field experience credit can be accepted toward the minor. The field experience course requires students to take or have taken SWK 201, Social Work Practice.

2 At least twelve semester hours at the 300/400 level.

Minor in Sociology (soc)

Sociology

Select fifteen SOC semester hours 1 15

Total Hours 15

1 At least twelve semester hours at the 300/400 level.

Anthropology Courses

ANT 150. Cultural Anthropology. 3 Hours
CULTURAL ANTHROPOLOGY - Basic principles of cultural anthropology. Survey of human adaptation to and adjustment of the environment by means of culture; comparison of ways of life among peoples of the world for inferences toward understanding human behavior. Required for anthropology minors.

ANT 300. Evolution-People & Culture. 3 Hours
EVOLUTION OF PEOPLE AND CULTURE - Survey of human biological and cultural evolution from prehuman ancestors to settled city-states. Consideration of contemporary peoples at various levels of social complexity.

ANT 306. Culture and Power. 3 Hours
CULTURE AND POWER - Exploration of how culture and power are intertwined in the process of transformation of cultural beliefs and practices around the world. Focus on the ways in which anthropologists have studied modern state formation, and the attendant cultural politics, in local, regional, national, and international contexts. Prerequisite(s): ANT 150.

ANT 310. Culture & Personality. 3 Hours
CULTURE AND PERSONALITY - Survey of studies investigating the relationship between cultural environment and the individual. Material drawn from both literate and nonliterate societies.

ANT 315. Language and Culture. 3 Hours
LANGUAGE AND CULTURE - Introduction to the scientific study of language and its relationship to other aspects of human behavior.

ANT 320. Anthropology of Childhoods. 3 Hours
ANTHROPOLOGY OF CHILDHOODS - Survey of anthropology research on issues related to children and childhood. Cross-cultural comparison of changing conceptions and varied experiences of the developmental stage known singularly as ‘childhood’, with a special emphasis on children as social agents and childhoods as lived experiences. Prerequisite(s): ANT 150.

ANT 325. Anthropology of Human Rights. 3 Hours
ANTHROPOLOGY OF HUMAN RIGHTS - An overview of anthropological approaches to human rights, weighing human rights universals against situations of cultural particularity. Prerequisite(s): ANT 150.

ANT 335. Urban Anthropology. 3 Hours
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 336. Epidemics, Power & Human Condition. 3 Hours

ANT 352. Cultures-Latin America. 3 Hours
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 356. Cultures of Africa. 3 Hours
CULTURES OF AFRICA - Examination of Africa through the lens of anthropology. Exploration of late colonial and postcolonial eras, with a focus on gender, kinship, ethnicity, politics, religion, and prospects for the future. Consideration of the production of knowledge about and dominant representations of Africa. Prerequisite(s): ANT 150.

ANT 360. Cultures-South Asia. 3 Hours
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. 3 Hours
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 SOC 204 or ANT 150.

ANT 392. Sp Topics-ANT. 1-6 Hours
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. Anthrp Field Work. 1-6 Hours
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 477. Honors Thesis. 3 Hours
HONORS THESIS - 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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

ANT 478. Honors Thesis. 3 Hours
HONORS THESIS - 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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

ANT 497. Service Learning Exp. 1 Hour
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): A 300-400 level Anthropology course.

ANT 498. Independent Study. 1-6 Hours
INDEPENDENT STUDY - Research problems or readings of special interest investigated under the guidance of an anthropology staff member. Prerequisite(s): Permission of department chairperson.

Social Work Courses
SWK 201. SWK-Prac and Prof. 3 Hours
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. Commt Prac&Rsrch. 3 Hours
SWK 305. Soc Ser Health Field. 3 Hours
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 Serv. 3 Hours
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 & Human Services. 3 Hours
SWK 325. Child Abuse. 3 Hours
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: Soc Welfare. 3 Hours
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 Agng. 3 Hours
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&Suicide. 3 Hours
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 335. SWK & Envir Justice. 3 Hours
SOCIAL WORK AND ENVIRONMENTAL JUSTICE - Study of the impact of environmental degradation upon individuals and communities and the role of social work in advocating for environmental justice. Topics include health, disasters, environmental degradation, human rights, and advocacy.

SWK 360. International Soc Wrk. 3 Hours
INTERNATIONAL SOCIAL WORK - Study of the role of social workers in international contexts. Topics include migration, globalization, development, conflict, and the ethical implications of social workers practicing internationally.
SWK 370. Social Welfare Policy. 3 Hours
SOCIAL WELFARE POLICY - Study of U.S. social welfare policy and its impact upon populations of interest to social workers and other helping professionals. Topics include history of social welfare policy, ideologies that inform social welfare policy, attention to the gendered nature of social policy, international social welfare policy, contemporary policy debates and the role of social workers and allies in the policy arena.

SWK 392. Special Topics. 1-3 Hours

SWK 401. Community Field Exp. 5 Hours
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. 1-3 Hours
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 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Permission of instructor.

SWK 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approval of University Honors Program.

SWK 497. Service Learning Exp. 1 Hour
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.

Sociology Courses

SOC 101. Prin of Sociology. 3 Hours
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. Mod Social Problems. 3 Hours
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 208. Soc Resrch Methds. 3 Hours
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. 3 Hours
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 Thry. 3 Hours
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. 3 Hours
DATA ANALYSIS - The analysis and interpretation of both quantitative and qualitative social science data. Prerequisite(s): SOC 101 or SOC 204.

SOC 308L. Data Analysis Lab. 1 Hour
DATA ANALYSIS LABORATORY - Training in appropriate computer programs and computer analysis of social science data. Prerequisite(s): SOC 208. Corequisite(s): SOC 308L.

SOC 309. Commmty Prac&Rsrch. 3 Hours
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; permission of instructor.

SOC 321. Soc of Work&Occuptns. 3 Hours

SOC 322. Sex Roles & Society. 3 Hours
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. 3 Hours
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. 3 Hours
DEVIAN'T 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 & Society. 3 Hours
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. 3 Hours
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 & Ethnic Minorities. 3 Hours
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. 3 Hours
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 & Family. 3 Hours
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. 3 Hours
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. Sociology of Socialities. 3 Hours
SOCIOLoGY OF SOCIALITIES - Examination of theoretical and conceptual issues, empirical research and social policies germane to the sociological study of human sexuality. Topics include: sexual identity and orientation; sexuality throughout the life course; sexual assault and coercive sexuality; social control of sexuality; social locations (race, class, and gender) and sexuality; and the relationship between sexuality and the socio-political process. Prerequisite(s): SOC 101 or SOC 204.

SOC 334. Religion & Society. 3 Hours
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 335. Sociology of Extremism. 3 Hours
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 racist extremism in the United States. Prerequisite(s): SOC 101 or SOC 204.

SOC 336. Organizations in Modern Society. 3 Hours
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. 3 Hours
POLITICAL SOCIOLOGY - Study of political power. Political influence by economic elites, impact of bureaucracies, competing ideologies, alienation and nonvoting, and social movements as challenges to power structures. Prerequisite(s): SOC 101 or SOC 204.

SOC 339. Social Inequality. 3 Hours
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. 3 Hours
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 & Society. 3 Hours
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. 3 Hours
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. 3 Hours
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. 3 Hours
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 SOC 204.

SOC 345. Sociology of Extremism. 3 Hours
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 racist extremism in the United States. Prerequisite(s): SOC 101 or SOC 204.

SOC 346. Crime, Film, & Society. 3 Hours
CRIME, FILM, AND SOCIETY - This course will examine the portrayal of crime and justice in feature length films and how these films influence how our society views issues related to crime. The primary focus will be on the American criminal justice system (law enforcement, courts, and corrections) and the broader topic of justice. Prerequisite(s): (SOC 101 or SOC 204) or CJS 101 or permission of instructor.
SOC 351. Urban Sociology. 3 Hours
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. 3 Hours
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 353. Internet Community. 3 Hours
INTERNET COMMUNITY - Internet Community.

SOC 354. Persp on Childhood. 3 Hours
PRESPECTIVE ON CHILDHOOD - Perspective on Childhood.

SOC 355. Families & The Economy. 3 Hours
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 356. Immigration. 3 Hours
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 SOC 204) or ANT 150.

SOC 371. Soc of Human Rights. 3 Hours
SOCIOLOGY OF HUMAN RIGHTS - Examination of theories, research, and social policies pertinent to the sociological study of human rights. Topics include: progress and challenges in the evolution and application of human rights norms; global stratification, poverty and human development; social locations (race, class, gender, and age) and human rights; the relationship between human rights and development; and social movements and human rights promotion. Prerequisite(s): (SOC 101 or SOC 204) or permission of instructor.

SOC 392. Sel Topics-SOC. 1-6 Hours
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 SOC 204.

SOC 394. Popular Culture. 3 Hours
POPULAR CULTURE IN SOCIETY - Introduction to an understanding of the collective behavior and structured activities of the popular culture and entertainment industry, the nature of musical choice, television, radio, Internet, genres and styles, distribution, performance, and the social construction of culture from a sociological perspective. Prerequisite(s): SOC 101 or SOC 204.

SOC 398. Soc Sci Scholrs Sem. 3 Hours
SOCIAL SCIENCE SCHOLARS' SEMINAR - Study and seminar discussion of selected sociological writings and the analysis, interpretation and criticism of these works. Open only to students in the Berry Scholars Program. Prerequisite(s): ENG 198; HST 198.

SOC 408. Sr Project Design. 1 Hour
SENIOR PROJECT DESIGN - Preparation for sociology capstone course with a focus on a workable research topic, literature review, and research methods design. Required for Sociology majors. Prerequisite(s): SOC 303, SOC 308.

SOC 409. Senior Project. 3 Hours
SENIOR PROJECT - Capstone experience for sociology majors consisting of a seminar on research and writing in sociology, an empirical research project of the student's choosing, and a written and oral presentation of the research. Prerequisite(s): SOC 408.

SOC 410. Victimology. 3 Hours
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; 12 hours of course work in the social sciences.

SOC 426. Ldrshp-Communities. 3 Hours
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. Same as POL 426. Prerequisite(s): Junior standing.

SOC 432. Struct of Privilege. 3 Hours
STRUCTURES OF PRIVILEGE - Study of the theoretical and conceptual issues, empirical research, and social policies germane to the sociological analysis of privilege. Topics include whiteness, men and masculinities, class-privilege, heterosexuality and heterosexism, and intersectionality. Prerequisite(s): SOC 101 or SOC 204.

SOC 435. Soc of Globalization. 3 Hours
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; permission of instructor.

SOC 437. Marx & Sociology. 3 Hours
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; junior or senior standing.

SOC 438. Urban Poverty. 3 Hours
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. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

Soc 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

Soc 492. Special Topics-Soc. 1-6 Hours
SPECIALTOPICSINSOCIOLOGY-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; permission of instructor.

Soc 495. Sociology Internship. 1-6 Hours
SOCIOLOGYINTERNSHIP-Supervised work experience related to course work in sociology in appropriate government, social service, and private organizations. May be repeated to a maximum of six semester hours. Prerequisite(s): Permission of department chairperson.

Soc 497. Service Learning Exp. 1 Hour
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 level Sociology course.

Soc 498. Independent Study. 1-6 Hours
INDEPENDENT STUDY - Research or special readings on problems of interest to the student under the guidance of sociology staff member. Prerequisite(s): Permission of department chairperson.

Sustainability, Energy and Environment

The minor in Sustainability, Energy and the Environment (SEE) is a multidisciplinary effort to encourage students to explore complex societal sustainability issues that do not fit easily into one traditional academic discipline. The genesis of this program lies in the realization that a scientific and technical knowledge of environmental, ecological and energy system challenges will not be sufficient to develop viable answers. Many disciplines at the University make contributions to these issues, ranging from ethical, spiritual and artistic, to economic, political and sociological approaches. Students will be introduced to the minor through a seminar-style course, will take at a minimum two further team-taught and interdisciplinary courses, and will gain experience in interdisciplinary research.

Students desiring to minor in sustainability, energy and environment should notify the coordinator of sustainability, energy and environment.

Sustainability, Energy and Environment Advisory Committee
Robert Brecha (Physics), Coordinator
Cassimian (Social Work), Fouke (Philosophy), Hallinan (Mechanical Engineering), Jablonski (Marianist Environmental Education Center and Religious Studies), Kwon (Visual Arts), McEwan (Biology), Pautz (Political Science), Potter (English), Wu (Geology)

Minor in Sustainability, Energy and Environment (see)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>SEE 250</td>
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<td>Select two or three core courses from:</td>
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<td>ASI 320 Cities and Energy</td>
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<td>SEE 301</td>
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<td>SEE 303</td>
<td>Constructs of Place</td>
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1 Required for students not majoring in natural science.
2 SEE 477 and SEE 478 (Honors Thesis) may substitute for SEE 401 and SEE 402.

Courses

SEE 250. Intr-Sustn Ergy&Envr. 3 Hours
INTRODUCTION TO SUSTAINABILITY, ENERGY AND THE ENVIRONMENT - Emphasis on learning how to view complex issues from different disciplinary points of view, developing reading and critical thinking skills about current issues in sustainability, gaining an awareness of different ethical positions and how these influence the quest for solutions, and learning how scientific and sociopolitical processes work to investigate and address sustainability issues.

SEE 301. Glob Chng&Erth Sys. 3 Hours
GLOBAL CHANGE AND EARTH SYSTEMS - Multidisciplinary introduction to the science of the earth system. Focus is on the interrelatedness of geological, biological, chemical and physical processes, and on methods used to understand both the past natural history and potential future scenarios for change in the earth system. Corequisite(s): Bio 101, Sci 230, or equivalent.

SEE 303. Constructs of Place. 3 Hours
CONSTRUCTIONS OF PLACE - Multidisciplinary, arts-based course that explores the complex connections between our sense of place and the physical and environmental conditions that influence landscapes and communities.
SEE 401. Sustainability Research I. 3 Hours
SUSTAINABILITY RESEARCH I - Interdisciplinary exploration of the issues of sustainability. The scientific, moral, spiritual, social, political, historical, ethical and economic dimensions of sustainability will be explored. Will also provide exploration of the foundations of ethical theory and their application to environmental issues. Students will pursue a research project with the primary focus of sustainability on campus. Prerequisite(s): PHL 103; completion of General Education Natural Science Requirements; junior or senior standing.

SEE 402. Sustainability Resrch II. 3 Hours
SUSTAINABILITY RESEARCH II - An interdisciplinary exploration of the issues of sustainability as they affect the Dayton community. Course will also explore political philosophy and the ethical foundations of public policy. Students will choose an in-depth community-based research project. Prerequisite(s): PHL 103; completion of General Education Natural Science Requirements; junior or senior standing.

SEE 477. SEE-Honors Thesis. 3 Hours
SUSTAINABILITY, ENERGY AND ENVIRONMENT 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 three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approval of University Honors Program.

SEE 478. SEE-Honors Thesis. 3 Hours
SUSTAINABILITY, ENERGY AND ENVIRONMENT 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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

Theatre
Major:
• Bachelor of Arts, Theatre

Minor:
• Theatre

A major in Theatre (THR), 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 mainstage production, for which they receive credit in THR 100 or THR 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
Jonathan A. Hess, Chairperson, Department of Communication
Professor Emeritus: Gilvary
Associate Professor: Anderson
Assistant Professor: Dunlevy
Lecturer: Beran

Bachelor of Arts with a major in Theatre (thr)

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ThR electives $^2$ 10

Liberal Studies Curriculum

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<tr>
<td>ASI 150</td>
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<tr>
<td>Communication Competencies</td>
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<tr>
<td>Creative and Performing Arts $^3$</td>
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<tr>
<td>History</td>
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<tr>
<td>L2 Proficiency (Proficiency in a language other than English)</td>
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<td>Literature</td>
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<td>Mathematics (excluding MTH 102, 204, 205)</td>
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<td>Natural Sciences</td>
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<td>Philosophy and Religious Studies</td>
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<td>Social Sciences</td>
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<td>Total Hours - general education courses/academic electives to total at least 124</td>
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1 A minimum of four semester hours of THR 100 and/or THR 300 are required for the degree program.
2 THR electives may include no more than three additional hours of THR 100 and/or THR 300.
3 Includes THR or other arts, excluding THR 100 and THR 300.

Minor in Theatre (thr)

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Courses

THR 100. Theatre Lab. 1-3 Hours
THEATRE LABORATORY - Credit allowance for role playing and/or play production in mainstage productions. Fifty hours of work minimum for one semester hour of credit. Repeatable up to three semester hours in first and second years. All registration retroactive. No advance registration.

THR 201. Basic Dance. 2-3 Hours
BASIC DANCE FOR THE PERFORMING ARTIST - Beginning course in movement introducing the basic principles of dance and performance technique. Open to all University students.

THR 202. Stage Makeup. 2 Hours
STAGE MAKEUP - 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.

THR 203. Technical Productn. 3 Hours
TECHNICAL PRODUCTION - Introductory survey of scene design, construction, painting, and lighting. Current theory will be examined along with practical applications and techniques.

THR 206. Stage Management. 2 Hours
STAGE MANAGEMENT - Study of methods and standards of stage management in the theatre. Emphasis on organizational and management practices common to most theatres. Development of skills in applying methods of stage management.

THR 251. Beginning Tap Dance. 2 Hours
BEGINNING TAP DANCE - Beginning course in the theory and practice of tap dance.

THR 261. Beginning Jazz Dance. 2-3 Hours
BEGINNING JAZZ DANCE - Beginning course in the theory and practice of jazz dance.

THR 271. Beginning Ballet. 2-3 Hours
BEGINNING BALLET - Beginning course in the theory and practice of classical ballet technique.

THR 300. Theatre Lab. 1-3 Hours
THEATRE LABORATORY - The third and fourth-year level of credit allowance for role playing and/or play production. Requirements and registration same as for THR 100.

THR 301. Intermediate Dance. 2 Hours
INTERMEDIATE DANCE FOR THE PERFORMING ARTIST - Intermediate-level course in movement for students interested in further developing dance and performance technique. Prerequisite(s): Permission of department chairperson.

THR 303. Scene Painting. 3 Hours
SCENE PAINTING - Basic principles of color paint theory and materials. Investigation of various scene-painting techniques. One three-hour class meeting weekly. Prerequisite(s): Permission of department chairperson.

THR 305. Theatre Stagecraft. 3 Hours
THEATRE STAGECRAFT - Study and application of scene construction, rigging, backstage organization, production analysis, and technician-designer relationship.

THR 307. Theatre Lighting. 3 Hours
THEATRE LIGHTING - 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.

THR 310. Acting I. 3 Hours
ACTING I - 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.

THR 312. Acting-Film & TV. 3 Hours
FILM AND TV ACTING - 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.

THR 320. Stage Mvmt & Voice. 3 Hours
MOVEMENT AND VOICE FOR THE STAGE - An integrated approach to the study of stage movement and voice production for the theatre.

THR 323. Acting II. 3 Hours
ACTING II - 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 of department chairperson.

THR 325. Thry&Crtcsm Stage: I. 3 Hours
THEORY AND CRITICISM OF THE STAGE I - 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 THR majors. Prerequisite(s): THR 105.

THR 326. Thry&Crtcsm stage:II. 3 Hours
THEORY AND CRITICISM OF THE STAGE II - Continuation of THR 325 from romantic to modern periods. Prerequisite(s): THR 105.

THR 330. Concepts Scene Design. 3 Hours
CONCEPTS OF SCENE DESIGN - 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.

THR 340. Director-Theatre. 3 Hours
THE DIRECTOR IN THE THEATRE - 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, THR 310, THR 330.
THR 344. Act/Dir-Musical Thr. 3 Hours
ACTING/DIRECTING FOR MUSICAL THEATRE - Study of performance and directing techniques for Musical Theatre. Studio fee.

THR 350. Theatre Styles. 3 Hours

THR 351. Intermed Tap Dance. 2 Hours
INTERMEDIATE TAP DANCE - Intermediate course in the theory and practice of tap dance.

THR 361. Intermed Jazz Dance. 2 Hours
INTERMEDIATE JAZZ DANCE - An intermediate course in the theory and practice of jazz dance and technique. Prerequisite(s): Permission of department chairperson.

THR 370. Topics in Theatre. 1-6 Hours
TOPICS IN THEATRE STUDY - Study of special topics or themes in theatre performance and production. May be repeated as topics change. Prerequisite(s): Permission of department chairperson.

THR 371. Intermediate Ballet. 2 Hours
INTERMEDIATE BALLET - Intermediate course in the theory and practice of classical ballet technique. Prerequisite(s): Permission of department chairperson.

THR 414. Adv Scene Design. 3 Hours
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 of department chairperson.

THR 415. Hst of the Theatre I. 3 Hours
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 THR 425 required of all majors.).

THR 424. Play Directing. 3 Hours
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. Hst of Theatre II. 3 Hours
HISTORY OF THE THEATRE II - Continuance of 415 from the Italian Renaissance to the modern theatre. (THR 415 or THR 425 required of all majors.).

THR 440. Prob Thr Prod&Design. 3 Hours
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 twelve semester hours. Prerequisite(s): Permission of department chairperson.

THR 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

THR 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

THR 485. Theatre Seminar. 3-6 Hours
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 six semester hours. Prerequisite(s): Permission of department chairperson.

THR 490. Spec Prob Theatre. 3-5 Hours
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 nine semester hours.

THR 498. Theatre Internship. 1-3 Hours
THEATRE INTERNSHIP - Theatre work experience with an approved organization. Student must be in good academic standing with at least twelve hours of theatre 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. Grading Option Two only.

Visual Arts

Majors:
- Bachelor of Arts, Art History
- Bachelor of Arts, Visual Arts
- Bachelor of Fine Arts, Art Education
- Bachelor of Fine Arts, Fine Arts
- Bachelor of Fine Arts, Graphic Design
- Bachelor of Fine Arts, Photography

Minors:
- Art History
- Fine Arts
- Graphic Design
- Photography
- Visual Arts

The Department of Visual Arts provides quality education in the areas of art education, art history, fine art studio, photography, visual arts, and visual communication design. The Department cultivates high standards for creativity, craft, conceptual understanding, critical analysis, historical scholarship, and pedagogy. Central to these pursuits are the artistic practice and scholarly research of faculty, the dedication of support staff to the department’s educational objectives, and engaged teaching, learning, and scholarship. The Department of Visual Arts is a thriving learning community grounded in the Marianist tradition of educating the
whole person. It is fully integrated with the College and the University and contributes significantly to our institutional commitment to excellence.

The department offers the following degrees:

Bachelor of Arts Degree (B.A.)
The Bachelor of Arts (B.A.) is intended for those interested in a broad liberal arts education as an overarching part of their chosen major (Art History, Visual Arts). Approximately forty percent of the degree requirements are taken in the creation and study of visual arts particular to the chosen major. With this degree option it is possible for students to earn a minor, or even a second major, in another university offered discipline.

Bachelor of Fine Arts Degree (B.F.A.)
The Bachelor of Fine Arts Degree (B.F.A.) is an intensive "professional" program of study specifically tailored to prepare students to enter the field of their chosen major (Art Education, Fine Art, Photography, Graphic Design) or to continue their studies in graduate school. Approximately sixty-five percent of the degree requirements are in the creation and study of the visual arts particular to the chosen major. The B.F.A. degree combines the major specific curriculum with visual arts foundation courses, and the College of Arts and Sciences and University general education requirements.

Majors include:

Bachelor of Arts (B.A.) with a Major in:
- Art History
- Visual Arts

Bachelor of Fine Arts (B.F.A.) with Teacher Licensure

Bachelor of Fine Arts (B.F.A.) with a Major in:
- Fine Art
- Graphic Design
- Photography

Program Descriptions:

Art History (HOA)
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.

Visual Arts (VAR)
The Bachelor of Arts (B.A.) with a major in Visual Arts is a flexible program that emphasizes a broad liberal arts education with supportive studies in art, design, and art history. This degree offers students a breadth of exploration of all areas making up the Department of Visual Arts. Studio and art history requirements constitute thirty-five to forty percent of the Visual Arts B.A. degree. To take advantage of the diverse academic environment that is the University of Dayton, students are encouraged to earn a minor or a second major within another discipline. However, it is not permitted to obtain a dual-degree in Visual Arts and in either Fine Arts (ART), Graphic Design (GDN), or Photography (PHO). It is permitted to double major in Visual Arts and Art History. In this case, the maximum of twelve semester hours of VAH courses allowed in the Visual Arts major may double count.

Art Education (FAE)
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 twelve, as well as for master’s degree programs.

Fine Arts (ART)
The Bachelor of Fine Arts (B.F.A.) with a major in Fine Arts is a professional degree program that provides an intensive, in depth exploration of selected fine art media. Students choose an emphasis in ceramics, drawing, illustration, painting, printmaking, or sculpture.

Graphic Design (GDN)
The Bachelor of Fine Arts (B.F.A.) with a major in Graphic Design is an intensive professional degree program designed to prepare students for careers in graphic and advertising design, electronic media and related new technologies. Program options include graphic design and computer imaging.

Photography (PHO)
The Bachelor of Fine Arts (B.F.A.) with a major in Photography is a professional degree that provides an intensive, in depth exploration of photographic media.

Visual Arts Minors
- A Minor in Art History consists of eighteen semester hours. (For majors in visual arts, only six semester hours of the minor may double count.)
- A Minor in Fine Arts consists of twenty-one semester hours. (Not open to majors in visual arts.)
- A Minor in Photography consists of twenty-one semester hours. (Not open to majors in visual arts.)
- A Minor in Visual Arts consists of twenty semester hours. (Not open to majors in art education, fine arts, photography, or visual communication design.)
- A Minor in Graphic Design consists of twenty-one semester hours. (Not open to majors in visual arts.)
- Transfer students seeking a visual arts minor must complete at least nine 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 Visual Arts 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.
Monetary awards applied toward future tuition 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 mid-point evaluation of the Second Year and
Scholarship Review.

Faculty

Judith Huacuja, Chairperson
Professors: Crum, Niles, Whitaker, Wilkinson
Associate Professors: Clarke, Gooch, Holscher Almazan, Huacuja,
Jones, Kwon, Marcinowski, Matlack-Whitaker, Phelps, Wilbers
Lecturers: Jennings, Kessler, Tsen

Bachelor of Arts with a major in Art History (hoa)

Art History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAH 101</td>
<td>Intro-Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>VAH 201</td>
<td>Survey of Art I</td>
<td>3</td>
</tr>
<tr>
<td>VAH 202</td>
<td>Survey of Art II</td>
<td>3</td>
</tr>
<tr>
<td>VAH 203</td>
<td>Survey of Art III</td>
<td>3</td>
</tr>
<tr>
<td>VAH 485</td>
<td>Art History Seminar</td>
<td>3</td>
</tr>
<tr>
<td>VAR 299</td>
<td>Second Year Review</td>
<td>0</td>
</tr>
</tbody>
</table>

Select seven VAH courses (300/400 level) 21
Select two major program electives 1 6

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAR 100</td>
<td>Vis Arts Foundatn</td>
<td>1</td>
</tr>
<tr>
<td>Communication Competencies</td>
<td>3-9</td>
<td></td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>L2 Proficiency (Proficiency in a language other than English)</td>
<td>0-11</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics (excluding MTH 102, 204, 205)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Select five Visual arts electives 1 14

1 Major 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 requirements

Bachelor of Arts with a major in Visual Arts (var)

Visual Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAD 220</td>
<td>Design Processes I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 104</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
<tr>
<td>VAF 112</td>
<td>Foundation 2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>VAF 117</td>
<td>Foundation 3-D Design</td>
<td>3</td>
</tr>
<tr>
<td>VAF 216</td>
<td>Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>VAP 101</td>
<td>Foundation Photography</td>
<td>3</td>
</tr>
<tr>
<td>VAF 201</td>
<td>Photography II</td>
<td>3</td>
</tr>
<tr>
<td>or VAP 240 Digital Processes I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>VAR 299</td>
<td>Second Year Review</td>
<td>0</td>
</tr>
<tr>
<td>VAR 495</td>
<td>Senior Project Seminar</td>
<td>1</td>
</tr>
<tr>
<td>VAR 496</td>
<td>Project, Present &amp; Paper</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from:

- VAH 201 Survey of Art I 3
- VAH 202 Survey of Art II 3
- VAH 203 Survey of Art III 3

Select one VAH course (300/400 level) 3

Select five Visual arts electives 1 14

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAR 100</td>
<td>Vis Arts Foundatn</td>
<td>1</td>
</tr>
<tr>
<td>Communication Competencies</td>
<td>3-9</td>
<td></td>
</tr>
<tr>
<td>History (excludes VAH courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>L2 Proficiency (Proficiency in a language other than English)</td>
<td>0-11</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics (excluding MTH 102, 204, 205)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
<td></td>
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<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours - general education courses/academic electives to total

Bachelor of Fine Arts with a major in Art Education (fae)

Art Education 1,2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAE 231</td>
<td>Intro-Art Ed</td>
<td>2</td>
</tr>
<tr>
<td>VAE 383</td>
<td>Foundation of Art Ed</td>
<td>3</td>
</tr>
<tr>
<td>VAE 483</td>
<td>Tch Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>VAF 104</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
<tr>
<td>VAF 112</td>
<td>Foundation 2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>VAF 117</td>
<td>Foundation 3-D Design</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Nine of the fourteen hours to be selected from at least two of the
following: VAD, VAF, VAP, and VAR. Nine of the fourteen hours
must be at the 300-400 level.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAF 204</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 216</td>
<td>Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>VAF 226</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 232</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 240</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>or VAF 242</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 253</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>or VAF 353</td>
<td>Printmaking II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 304</td>
<td>Drawing III</td>
<td>3</td>
</tr>
<tr>
<td>VAF 498</td>
<td>Senior/Prof Seminar</td>
<td>3</td>
</tr>
<tr>
<td>VAF 499</td>
<td>Portfolio &amp; Paper:FA</td>
<td>1</td>
</tr>
<tr>
<td>VAP 101</td>
<td>Foundatn Photogrphy</td>
<td>3</td>
</tr>
<tr>
<td>VAR 299</td>
<td>Second Year Review</td>
<td>0</td>
</tr>
</tbody>
</table>

Select two courses from:

- VAH 201 Survey of Art I
- VAH 202 Survey of Art II
- VAH 203 Survey of Art III

Select one course from:

- VAH 470 19th Century Art I
- VAH 471 19th Century Art II
- VAH 480 20th Century Art I
- VAH 483 20th Century Art II

Select one VAH course

Select four VAR electives

**Education requirements:**

**EDT 110**  
Profession-Teacnng  
& 110L and Prfssn Tchnq Lab  
3

**EDT 207**  
Chld&Adol In Eductn  
& 207L and Chld & Adlct Ed Lab  
4

**EDT 305**  
Phil&Hist of Amer Ed  
3

**EDT 340**  
Ed Dvse St Pop -Incl  
& 340L and Ed Dvs st Pop Inc Lb  
3

**EDT 459**  
Crt Rdg Wrtg Cnt Ar  
3

**EDT 477**  
Std Tchnq-Art K-12  
12

**Breadth Requirements**

- VAH 470 19th Century Art I  
3
- or VAH 471 19th Century Art II  
3
- or VAH 480 20th Century Art I  
3
- or VAH 483 20th Century Art II  
3
- VAR 100 Vis Arts Foundatn  
1

**Communication Competencies**  
3-9

**Humanities**  
3

**Natural Sciences**  
6

**Mathematics (excluding MTH 102, 204, 205)**  
3

**Philosophy and Religious Studies**  
9

**Social and Behavioral Sciences (includes EDT courses)**  
6

**Total Hours - general education courses/academic electives to total at least**  
132

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1 Students in the Art Education program are required to maintain a 2.5 cumulative grade point average overall, and a 2.5 cumulative grade point average in teacher education and visual arts courses.

2 Students are required to pass PRAXIS I and II and a Second Year Review in their studio work.

**Bachelor of Fine Arts with a major in Fine Arts (art)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAF 104</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
<tr>
<td>VAF 112</td>
<td>Foundation 2-D Dsgn</td>
<td>3</td>
</tr>
<tr>
<td>VAF 117</td>
<td>Foundation 3-D Dsgn</td>
<td>3</td>
</tr>
<tr>
<td>VAF 204</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 216</td>
<td>Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>VAF 226</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 232</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 253</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>VAF 304</td>
<td>Drawing III</td>
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<td>VAF 326</td>
<td>Painting II</td>
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<tr>
<td>VAF 332</td>
<td>Sculpture II</td>
<td>3</td>
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<tr>
<td>VAF 353</td>
<td>Printmaking II</td>
<td>3</td>
</tr>
<tr>
<td>VAF 498</td>
<td>Senior/Prof Seminar</td>
<td>3</td>
</tr>
<tr>
<td>VAF 499</td>
<td>Portfolio &amp; Paper:FA</td>
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</tr>
<tr>
<td>VAP 101</td>
<td>Foundatn Photogrphy</td>
<td>3</td>
</tr>
<tr>
<td>VAR 299</td>
<td>Second Year Review</td>
<td>0</td>
</tr>
</tbody>
</table>

Select two courses from:

- VAH 201 Survey of Art I
- VAH 202 Survey of Art II
- VAH 203 Survey of Art III

Select two VAH courses (300/400 level)

Select four Visual arts electives

**Breadth Requirements**

- VAR 100 Vis Arts Foundatn  
1

**Communication Competencies**  
3-9

**Humanities (includes HST)**  
12

**Mathematics (excluding MTH 102, 204, 205)**  
3

**Natural Sciences**  
7

**Philosophy and Religious Studies**  
12

**Social and Behavioral Sciences**  
9

**Total Hours - general education courses/academic electives to total at least**  
132

**Bachelor of Fine Arts with a major in GRAPHIC Design (GDN)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAD 220</td>
<td>Design Processes I</td>
<td>3</td>
</tr>
<tr>
<td>VAD 240</td>
<td>Form and Concept</td>
<td>3</td>
</tr>
<tr>
<td>VAD 245</td>
<td>Typography I</td>
<td>3</td>
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<tr>
<td>VAD 320</td>
<td>Design Processes II</td>
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<tr>
<td>VAD 345</td>
<td>Typography II</td>
<td>3</td>
</tr>
<tr>
<td>VAD 360</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>VAD 411</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
</tbody>
</table>
### Bachelor of Fine Arts with a major in Photography (pho)

**Photography**

- **VAF 104** Foundation Drawing 3
- **VAF 112** Foundation 2-D Dsgn 3
- **VAF 117** Foundation 3-D Dsgn 3
- **VAF 216** Design and Color 3
- **VAF 382** Hist of Photography I 3
- **VAF 480** 20th Century Art I 3
- **VAF 482** Hist-Photography II 3
- **VAP 101** Foundatn Photography 3
- **VAP 201** Photography II 3
- **VAP 240** Digital Processes I 3
- **VAP 302** Color Photography I 3

### Bachelor of Fine Arts with a major in Graphic Design (GDN)

**Graphic Design**

- **VAD 220** Design Processes I 3
- **VAD 240** Form and Concept 3
- **VAD 245** Typography I 3
- **VAD 320** Design Processes II 3
- **VAF 112** Foundation 2-D Dsgn 3
- **VAF 216** Design and Color 3
- **VAF 383** Hst-Graphic Design 3

---

**VAD 412** Graphic Design II 3
- **VAD 415** Graphic Design III 3
- **VAD 498** Senior/Prof Seminar 3
- **VAD 499** Portfolio&Paper-GD 1

**VAF 104** Foundation Drawing 3
- **VAF 112** Foundation 2-D Dsgn 3
- **VAF 117** Foundation 3-D Dsgn 3
- **VAF 204** Drawing II 3
- **VAF 216** Design and Color 3
- **VAH 383** Hst-Graphic Design 3
- **VAP 101** Foundatn Photography 3
- **VAR 299** Second Year Review 0

Select two courses from:
- **VAP 410** Advanced Photography 3
- **VAP 498** Senior/Prof Seminar 3
- **VAP 499** Portfolio&Paper-VAP 1
- **VAR 299** Second Year Review 0

Select two courses from:
- **VAP 320** Studio Practice I 3
- **VAP 330** Alternative Photo I 3
- **VAP 340** Digital Processes II 3

Select two courses from:
- **VAH 201** Survey of Art I 3
- **VAH 202** Survey of Art II 3
- **VAH 203** Survey of Art III 3

Select three VAP courses (300/400 level)

Select five Visual arts electives

**Breadth Requirements**

- **VAR 100** Vis Arts Foundatn 1
- **Communication Competencies** 3-9
- **Humanities (includes HST)** 18
- **Mathematics (excluding MTH 102, 204, 205)** 3
- **Natural Sciences** 7
- **Philosophy and Religious Studies** 12
- **Social and Behavioral Sciences** 9

Total Hours - general education courses/academic electives to total at least 131

**Minor in Art History (hoa)**

**Art History**

Select two courses from:
- **VAH 201** Survey of Art I 3
- **VAH 202** Survey of Art II 3
- **VAH 203** Survey of Art III 3

Select four VAH courses (300/400 level)

Total Hours 18

**Minor in Fine Arts (art)**

**Fine Arts**

- **VAF 104** Foundation Drawing 3
- **VAF 112** Foundation 2-D Dsgn 3
- **VAH 201** Survey of Art I 3
- **or VAH 202** Survey of Art II 3
- **or VAH 203** Survey of Art III 3

Select four VAF courses

Total Hours 21

**Minor in GRAPHIC Design (GDN)**

**Graphic Design**

- **VAD 220** Design Processes I 3
- **VAD 240** Form and Concept 3
- **VAD 245** Typography I 3
- **VAD 320** Design Processes II 3
- **VAF 112** Foundation 2-D Dsgn 3
- **VAF 216** Design and Color 3
- **VAF 383** Hst-Graphic Design 3
Select one course from:

- VAD 318: Grph Dsn-3 Dimensns
- VAD 345: Typography II
- VAD 360: Web Design
- VAD 395: Advertising Design
- VAD 411: Graphic Design I

Total Hours: 24

Minor in Photography (pho)

Photography:

- VAH 382: Hst of Photogrphy I
- VAP 101: Foundatn Photogrphy
- VAP 240: Digital Processes I

Select three VAP courses (300/400 level)

Total Hours: 21

Minor in Visual Arts (var)

Visual Arts:

- VAD 215: Computr Appl-Desgn
- or VAD 218: Computr Appl-Illust
- VAF 104: Foundation Drawing
- VAF 112: Foundation 2-D Dsgn
- VAH 201: Survey of Art I
- or VAH 202: Survey of Art II
- or VAH 203: Survey of Art III
- VAP 101: Foundatn Photogrphy

Select two VAD, VAF, VAP and/or VAR courses

Total Hours: 20

Visual Arts-Art Education Courses

- VAE 101: Early Chldhd Art Ed. 2 Hours
  
  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: Intro-Art Ed. 2 Hours
  
  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, EDT 110L. Corequisite(s): Field experience.

- VAE 232: Integrating the Arts. 2 Hours
  
  INTEGRATING THE ARTS: VISUAL ARTS - 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, EDT 110L.

- VAE 383: Foundatn of Art Ed. 3 Hours
  
  FOUNDATION OF ART EDUCATION - 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, EDT 110L, EDT 207, EDT 207L; permission of instructor and department chairperson. Corequisite(s): Field experience.

- VAE 483: Tch Visual Arts. 3 Hours
  
  TEACHING VISUAL ARTS - 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, EDT 110L, EDT 207, EDT 207L; VAE 231, VAE 383; permission of instructor and department chairperson. Corequisite(s): EDT 305, EDT 340, EDT 340L, EDT 459.

- VAE 483W: Elem&Sec Sch Art. 3 Hours
  
  ELEMENTARY AND SECONDARY SCHOOL ART - 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. 1-6 Hours
  
  SPECIAL PROBLEMS - Course for advanced individual work in art education. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours. Studio Fee.

Visual Arts-Art History Courses

- VAH 101: Intro-Visual Arts. 3 Hours
  
  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. 3 Hours
  
  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. 3 Hours
  
  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. 3 Hours
  
  SURVEY OF ART III - Survey of Western art from the eighteenth through the twentieth centuries. Open to all students. Fee.

- VAH 350: Western Architecture. 3 Hours
  
  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&Feminism. 3 Hours
  
  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. 3 Hours
  
  NINETEENTH-CENTURY ART I - Introduction to American art and architecture from the colonial period to the present. Open to all students. Fee.
Visual Arts-Fine Arts Courses

VAH 382. Hst of Photoghpgry I. 3 Hours
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. Open to all students. Fee.

VAH 383. Hst-Graphic Design. 3 Hours
HISTORY OF GRAPHIC DESIGN - Study of the significant developments, movements, and figures in the history of graphic design with an emphasis on the twentieth century. Open to all students. Fee.

VAH 450. Itl Renaissance Art. 3 Hours
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 of instructor and department chairperson.

VAH 460. Baroque Art. 3 Hours
BAROQUE ART - Study of the major painters, sculptors, and architects of the seventeenth century. Fee. Prerequisite(s): VAH 202 or permission of instructor and department chairperson.

VAH 470. 19th Century Art I. 3 Hours
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 of instructor and department chairperson.

VAH 471. 19th Century Art II. 3 Hours
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 of instructor and department chairperson.

VAH 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAH 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

VAH 480. 20th Century Art I. 3 Hours
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. Hst-Photoghpgry II. 3 Hours
HISTORY OF PHOTOGRAPHY II - The history of photography from 1945 to the present. Examines the medium as a potent force in modern and contemporary culture and as a constantly evolving form of art and tool of communication. Open to all students. Fee.

VAH 483. 20th Century Art II. 3 Hours
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. 3 Hours
ART HISTORY SEMINAR - 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 Hours
SPECIAL PROBLEMS - Advanced, independent study with faculty direction in art history. Prerequisite(s): One art history course or permission of instructor and department chairperson.

Visual Arts-Fine Arts Courses

VAF 104. Foundation Drawing. 3 Hours
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.

VAF 112. Foundation 2-D Dsgn. 3 Hours
FOUNDATION 2-D DESIGN - 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. Studio fee.

VAF 117. Foundation 3-D Dsgn. 3 Hours
FOUNDATION 3-D DESIGN - 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.

VAF 204. Drawing II. 3 Hours
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. Studio fee. Prerequisite(s): VAF 104.

VAF 216. Design and Color. 3 Hours
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. Studio fee. Prerequisite(s): VAF 112 or permission of department chairperson.

VAF 226. Painting I. 3 Hours
PAINTING I - Introduction to basic painting principles, techniques, and materials; still life, landscape, figure, and abstraction. Studio fee. Prerequisite(s): VAF 104, VAF 112, VAF 216 or permission of department chairperson.

VAF 228. Watercolor I. 3 Hours
WATERCOLOR I - Principles and techniques of transparent watercolor. Emphasis on technical mastery. Prerequisite(s): VAF 104, VAF 112, VAF 216 or permission of department chairperson.
VAF 253. Sculpture I. 3 Hours
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. 3 Hours
CERAMICS I - Introduction to basic methods of working in clay using coil and slab techniques. Studio fee.

VAF 242. Ceramics II. 3 Hours
CERAMICS II - Introduction to basic methods of working clay using the wheel. Studio fee.

VAF 253. Printmaking I. 3 Hours
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, VAF 112) or permission of department chairperson.

VAF 304. Drawing III. 3 Hours
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. Studio fee. Prerequisite(s): VAF 204.

VAF 325. Figure Painting. 3 Hours
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 VAF 304), VAF 226 or permission of department chairperson.

VAF 326. Painting II. 3 Hours
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 VAF 228) or permission of department chairperson.

VAF 328. Watercolor II. 3 Hours
WATERCOLOR II - Continuing investigation of watercolor techniques, both traditional and experimental. Still life, figure, landscape, and abstraction. Prerequisite(s): VAF 228 or permission of department chairperson.

VAF 332. Sculpture II. 3 Hours
SCULPTURE II - Continued exploration of three-dimensional concepts and materials, concentrating on wood, stone, and metal. Studio fee. Prerequisite(s): VAF 232 or permission of department chairperson.

VAF 342. Ceramics III. 3 Hours
CERAMICS III - Expanded exploration of skills, concepts, and processes introduced in VAF 240 hand building or VAF 242 wheel thrown ceramic forms, with emphasis on building techniques, materials, glazing, and firing processes. Prerequisite(s): (VAF 240 or VAF 242) or permission of instructor.

VAF 353. Printmaking II. 3 Hours
PRINTMAKING II - Advanced work in woodcut, monoprint and intaglio, including acrylic process and color etchings. Studio fee. Prerequisite(s): VAF 253.

VAF 370. Illustration I. 3 Hours
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, VAF 204.

VAF 380. Illustration II. 3 Hours
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. 3 Hours
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. Studio fee. Prerequisite(s): (VAF 204, VAF 304) or permission of department chairperson.

VAF 426. Painting III. 3 Hours
PAINTING III - Directed advanced studio problems; contemporary issues in painting. Repeatable up to nine semester hours. Studio fee. Prerequisite(s): (VAF 325 or VAF 326) or permission of department chairperson.

VAF 442. Ceramics IV. 3 Hours
CERAMICS IV - Investigation of advanced studio topics within ceramics. Problems structured to encourage technical, conceptual, and aesthetic exploration leading to the creation of a cohesive body of work. May be repeated as topics change. Prerequisite(s): VAF 342 or permission of instructor.

VAF 453. Printmaking III. 3 Hours
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. 3 Hours
ILLUSTRATION III - Focus on developing an individual point of view and illustration style. Studio Fee. Prerequisite(s): VAF 380.

VAF 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the departmental chairpersons. Prerequisite(s): Approval of University Honors Program.

VAF 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.
VAF 490. Special Problems. 1-5 Hours
SPECIAL PROBLEMS - Course for advanced individual work in fine arts. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours.

VAF 498. Senior/Prof Seminar. 3 Hours
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): Junior standing.

VAF 499. Portfolio & Paper:FA. 1 Hour
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. Studio fee. Prerequisite(s): VAF 498 or permission of department chairperson.

Visual Arts-Photography Courses

VAP 101. Fundatn Photography. 3 Hours
FOUNDATION PHOTOGRAPHY - Fundamentals of black-and-white still photography, including camera function, exposure, film processing, and printing, with an emphasis on learning the visual language of photographic imagery through a series of creative assignments. Studio fee.

VAP 201. Photography II. 3 Hours
PHOTOGRAPHY II - Variety of challenging projects develop increased technical competence, greater visual awareness, personal expression, and sustained creative growth. Studio fee. Prerequisite(s): VAP 101 or equivalent.

VAP 240. Digital Processes I. 3 Hours
DIGITAL PROCESSES I - Introduction to the practice, theory, aesthetics, and ethics of digital photography, including direct capture, scanning, enhancement, compositing, manipulation, and high-quality printing. Studio fee. Prerequisite(s): VAP 101 or permission of department chairperson.

VAP 302. Color Photography I. 3 Hours
COLOR PHOTOGRAPHY I - Introduction to techniques and aesthetics of color photography. Students utilize color sensitive films, papers, and digital technologies in the exploration of color photography. Studio fee. Prerequisite(s): (VAP 101, VAP 240) or permission of department chairperson.

VAP 320. Studio Practice I. 3 Hours
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. Alternative Photo I. 3 Hours

VAP 331. Alternative Photo II. 3 Hours
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 Processes II. 3 Hours
DIGITAL PROCESSES II - Expands on the practice and theory of digital photography and computer imaging. Emphasis is placed on the creation of a cohesive portfolio of digital artwork through the exploration of advanced digital methodologies and concepts. The course will also focus on the different modes of dissemination relevant to digital images. Studio fee. Prerequisite(s): VAP 240.

VAP 350. View Camera. 3 Hours
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. 3 Hours
COLOR PHOTOGRAPHY II - 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. 3 Hours
ADVANCED PHOTOGRAPHY - Students with a substantial commitment to photography and with demonstrated technical skills work on individual projects and participate in group critiques and discussions. Studio fee. Prerequisite(s): VAH 382 or VAH 482; VAP 201, VAP 302.

VAP 420. Photojournalism. 3 Hours
PHOTOJOURNALISM - 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. Prof Phtogrphc Appl. 3 Hours
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 of department chairperson.

VAP 450. Photogrphy Internshp. 1-3 Hours
PHOTOGRAPHY INTERNSHIP - Practical applications of photographic skills. Opportunities for advanced development and practical experience in professional working environments. Repeatable up to six semester hours for B.F.A. students. Prerequisite(s): Permission of department chairperson.

VAP 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.
VAP 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval 477; approval of University Honors Program.

VAP 490. Spe Problems-Photo. 1-5 Hours
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 of department chairperson.

VAP 498. Senior/Prof Seminar. 3 Hours
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): (VAP 410; senior standing) or permission of department chairperson.

VAP 499. Portfolio&Paper:VAP. 1 Hour
PORTFOLIO AND PAPER - PHOTOGRAPHY - Completion and presentation of an undergraduate portfolio and a comprehensive paper that surveys the student’s undergraduate career in the major and also serves as the foundation for a formal, public presentation that is reviewed by faculty and peers. Faculty approval of the portfolio and the paper is required for graduation. Prerequisite(s): VAP 498 or permission of department chairperson.

Visual Arts Courses

VAR 100. Vis Arts Foundatn. 1 Hour
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 210. Visual Journal. 3 Hours
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. 3 Hours
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. 0 Hours
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 for all Visual Arts majors.

VAR 345. Cmptr Modl&Anmtn I. 3 Hours
COMPUTER MODELING AND ANIMATION I - Introduction to history, theory, and practice of three-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.

VAR 440. Cmptr Modl&Anmtn II. 3 Hours
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. Cmptr Modl&Anmtn III. 3 Hours
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. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAR 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval 477; approval of University Honors Program.

VAR 490. Special Problems. 1-5 Hours
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.

VAR 495. Senior Project Seminar. 1 Hour
SENIOR PROJECT SEMINAR - The first in a sequence of two capstone courses. To be taken in the first semester of the senior year. Required for all Bachelor of Arts with a major in Visual Arts degrees. Students select a faculty mentor committee and work with that committee to establish a capstone project topic, goals, outcomes, and timeline associated with the project. Prerequisite(s): Senior standing. VAR majors only or permission of department chairperson.
VAR 496. Project, Presnt&Papr. 3 Hours
PROJECT, PRESENTATION, AND PAPER - The second of two capstone courses leading to graduation. To be taken in the second semester of the senior year. Students complete a senior project and paper, and give a public presentation regarding the project to be reviewed by faculty and peers. Faculty approval of project and paper is required for graduation. Prerequisite(s): VAR 495 or permission of department chairperson.

Visual Arts-Visual Comm Desgn Courses

VAD 211. Fund-Vis Comm Dsgn. 3 Hours
FUNDAMENTALS OF VISUAL COMMUNICATION DESIGN - Course for non-majors in the basics of design for communication. Attention to page layout, typography, image, graphic style, and information delivery. Studio fee.

VAD 215. Computr Appl-Desgn. 2 Hours
COMPUTER APPLICATIONS - DESIGN - An introduction to page design software programs and their use in the design process. Studio fee. Prerequisite(s): VAD 200.

VAD 218. Computr Appl-Illust. 2 Hours
COMPUTER APPLICATIONS - ILLUSTRATION - An introduction to drawing and paint software programs and their use in illustration. Studio fee. Prerequisite(s): VAD 200.

VAD 220. Design Processes I. 3 Hours
DESIGN PROCESSES I - Introduction to the processes of graphic design, specifically computer applications, equipment, and concepts as related to print and electronic based graphic design. Additionally, students engage in a survey of materials, assembly strategies, and various vehicles for the designed message. Studio fee. Prerequisite(s): VAD 200.

VAD 240. Form and Concept. 3 Hours
FORM AND CONCEPT - Exploration of visual form as means to convey content and meaning. Students enlist principles from art and design foundation courses within the context of graphic design. Design methodologies are introduced and explored, while process and hand skills are stressed. Studio fee. Prerequisite(s): VAD 112, VAD 216.

VAD 245. Typography I. 3 Hours
TYPOGRAPHY I - Investigation of the history, tradition, discipline, and function of typography as related to visual and verbal communication. Technical, formal, and semantic aspects are explored. Structure, space, and sequence, critical to the typographic message, are stressed. Studio fee. Prerequisite(s): VAD 220, VAD 240.

VAD 307. Drawing-Graphic Design. 2 Hours
DRAWING FOR GRAPHIC DESIGN - Exploration of materials, procedures, and drawing techniques for design presentations. Studio fee. Prerequisite(s): VAF 104.

VAD 310. Computer Illustration. 3 Hours
COMPUTER ILLUSTRATION - Exploration of the use of the computer as tool and medium for the creation and production of image and illustration for print and electronic graphic design. Studio fee. Prerequisite(s): VAD 220, VAD 240.

VAD 312. Visual Form. 3 Hours
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.

VAD 318. Grph Dsn-3 Dimnsns. 3 Hours
GRAPHIC DESIGN FOR THREE DIMENSIONS - Application of graphic design principles to packaging, product, exhibition, and environmental design. Studio fee. Prerequisite(s): VAD 240, VAD 245; VAF 117.

VAD 320. Design Processes II. 3 Hours
DESIGN PROCESSES II - Advanced exploration into the use of computer technology as means and medium for the implementation, production, and presentation of graphic design. Print design and production, as well as commercial printing pre-press are emphasized with additional attention given to production for electronic design vehicles. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245.

VAD 321. Computr Aided Illus. 3 Hours
COMPUTER AIDED ILLUSTRATIONS - An exploration of the use of the computer as both a tool and a medium for the creation and production of illustrations. Studio fee.

VAD 344. Design for Multmda I. 3 Hours
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.

VAD 345. Typography II. 3 Hours
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 351. Motion Design. 3 Hours
MOTION DESIGN - Exploration of the generation and application of motion in visual communication. This course builds on graphic design form, methods, technique, and principles to generate dynamic messaging using type, sound, image, and animation. While the computer and appropriate applications are primary tools, hand generated methods for concept and storyboarding are stressed as well. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 355. Interaction Design. 3 Hours
INTERACTION DESIGN - Investigation of the use of interactivity as applied to the digital and analog landscape. Focus on the design of richly interactive interfaces for current and emerging media (computers, mobile, touch etc.). While some emphasis is on the development and implementation of design vehicles, decided attention is paid to concept and visual effectiveness. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 360. Web Design. 3 Hours
WEB DESIGN - Investigation of the processes of web design, including concept, information architecture, navigation, interface, and standard languages and technologies for the delivery of content and information. Organization, aesthetics, and user experience are discussed and explored. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.
VAD 395. Advertising Design. 3 Hours
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. 3 Hours
GRAPHIC DESIGN I - Development of methodologies utilized for the purpose of generating concepts and effective communication within the context of graphic design. Attention is given to pragmatic and semantic relationships between elements such as typography, image, space, and color. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 412. Graphic Design II. 3 Hours
GRAPHIC DESIGN II - Development of methodologies utilized for the purpose of generating concepts and effective communication within the context of graphic design. Attention is given to pragmatic and semantic relationships between elements such as typography, image, space, and color. Studio fee. Prerequisite(s): VAD 220, VAD 240, VAD 245, VAD 320.

VAD 414. Trademark Design. 3 Hours
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. 3 Hours
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 of department chairperson.

VAD 444. Design for Multimedia II. 3 Hours
DESIGN FOR MULTIMEDIA II - Advanced level design for multimedia and interactive electronic media. Emphasis is placed on actual or simulated client-based projects.

VAD 477. Honors Thesis. 3 Hours
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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

VAD 478. Honors Thesis. 3 Hours
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 department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved VAD 477; approval of University Honors Program.

VAD 480. Design Internship. 1-3 Hours
DESIGN INTERNSHIP - Opportunities for practical experience in professional working environments. Repeatable up to nine semester hours. Prerequisite(s): Permission of department chairperson.

VAD 490. Special Problems. 1-3 Hours
SPECIAL PROBLEMS A - course for advanced individual work in design. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours. Studio fee.

VAD 498. Senior/Prof Seminar. 3 Hours
SENIOR/PROFESSIONAL SEMINAR - Capstone course required of all B.F.A. graphic design majors, to be taken in the fall term 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 of department chairperson.

VAD 499. Portfolio & Paper. GD. 1 Hour
PORTFOLIO & PAPER - Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty, peers, and professionals in a public forum. Faculty approval of portfolio and paper is required for graduation. Prerequisite(s): VAD 498 or permission of department chairperson.

Women’s and Gender Studies

Major:
- Bachelor of Arts, Women’s and Gender Studies

Minor:
- Women’s and Gender Studies

Women’s and gender studies places the experiences and perspectives of women at the center of analysis and also considers how gender intersects with other factors, such as race and class, to shape all of our lives. Interdisciplinary in nature, and founded upon the integration of theory and practice, critique and imagination, women’s and gender studies brings approaches from other disciplines and fields into conversation with each other and with critical theories about gender and power to address and improve the lives of women and, by extension, of children and men. Inspired by both feminist and Marianist traditions, the Women’s and Gender Studies Program at UD seeks to promote:

- Integration, collaboration, and personal engagement in learning
- The development and dissemination of critical thinking for social justice
- The appreciation and protection of human dignity and diversity
- Leadership through responsibility and service to community

Students majoring in women’s and gender studies must complete thirty-four to thirty-nine semester hours, including at least ten semester hours in four core WGS courses and twenty-four semester hours of upper-division courses offered by other departments. For these additional twenty-four semester hours, students must complete nine semester hours in one area of concentration, six semester hours in each of two additional areas, and three semester hours in a fourth area. The major also has a cultural diversity requirement of six semester hours. (These hours may be from courses that are also used to fulfill the area requirements.) Of the six hours, three must be from a course that emphasizes race, and/or that takes a multicultural approach, within a U.S. or European context; the other three must be from a course that focuses
on a non-U.S./European context or that takes a comparative international approach.

Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.

Students minoring in women’s and gender studies must complete at least fifteen semester hours, including one interdisciplinary core course (WGS 150, WGS 310 or WGS 350) and twelve hours in approved upper-division courses (300-level or above) from at least three different disciplines. Alternatively, minors may take two of the interdisciplinary core courses, and nine hours in approved upper-division courses from three different disciplines.

Women’s and Gender Studies Committee
Rebecca Whisnant (Philosophy), Director
Bennett (Religious Studies), Damasco (Roesch Library), DeAutels (Philosophy), Fleischmann (History), Hudson (Political Science), James (Philosophy), Lauffer-Ukeles (Law), Leming (Sociology, Anthropology, and Social Work), Merithew (History), Picca (Sociology, Anthropology, and Social Work), Potter (English), Rismiller (Women’s Center), Watters (Communication)

Bachelor of Arts with a major in Women’s and Gender Studies (wgs)

Women’s and Gender Studies
WGS 150 Intro Wm&Gndr Stdies 1,2 3
or WGS 350 Fem Social Change
WGS 310 Fem Thry & Mthd 3
WGS 390 Service Lrng in WGS 1-3
WGS 490 Senior Sem in WGS 3
First area courses:
Select nine semester hours from one area below 9
Second area courses:
Select six semester hours from a second area below 6
Third area courses:
Select six semester hours from a third area below 6
Fourth area courses: 3
Select three semester hours from the final area below 3
Areas: 4

Literature and Arts
CMS 415 Women & Communication
ENG 333 Images-Women in Lit
ENG 335 African Amer Lit
ENG 336 Gender in Fiction
ENG 345 Colon&Postcolon Lit
VAH 360 Art History&Feminsm

History
HST 347 Sex,Race & Sicence
HST 350 Gay Lesbian US HST
HST 351 Women Gender Am
HST 352 Hst of Amer Family
HST 353 Hst-Wom in Europ Soc
HST 354 Hst-Women Mid East
HST 356 Women in Third World

Philosophy and Religious Studies

PHL 307 Philosophy and Women
PHL 364 Race, Gender&Prl
REL 471 Women and Religion
REL 472 Ecology & Religion
REL 474 Women-Global Church

Social Sciences 3
ANT 306 Culture and Power
HSS 325 Women in Sport
POL 340 Gender&Internatnl Rel
PSY 443 Psychology of Women
PSY 462 Human Sexuality
SOC 322 Sex Roles & Society
SOC 330 Perspectves-Agng
SOC 331 Marriage & Family
SOC 332 Sociology of Women
SOC 333 Soc of Sexualities
SOC 339 Social Inequality
SOC 355 Families & The Economy
SOC 432 Struct of Privilege
SWK 325 Child Abuse
SWK 327 Parenting:Soc Welfare
SWK 330 Perspectives on Agng
SWK 370 Social Welfare Policy
UDI 341 Sexual Diversity

Cultural Diversity Requirement 5
Select one U.S./Europe Multicultural course from: 3
ENG 335 African Amer Lit
HST 351 Women Gender Am
HST 353 Hst-Wom in Europ Soc
PHL 364 Race, Gender&Prl
SOC 432 Struct of Privilege
Select one Global (non U.S./Europe) course from: 3
ANT 306 Culture and Power
ENG 345 Colonl&Postcolnl Lit
HST 354 Hst-Women Mid East
HST 356 Women in Third World
POL 340 Gender&Internatnl Rel
REL 471 Women and Religion
REL 474 Women-Global Church

Liberal Studies Curriculum
ASI 150 Intr to the Univ Exp 1
Communication Competencies 3-9
Creative and Performing Arts 3
History 6
L2 Proficiency (Proficiency in a language other than English) 0-11
Literature 3
Mathematics (excluding MTH 102, 204, 205) 3
Natural Sciences 11
Philosophy and Religious Studies 12
Social Sciences 12
Total Hours - general education courses/academic electives to total at least 124

1. Restricted to students with no more than six semester hours applicable to a WGS major or minor. This course counts toward the WGS major only if taken before any other WGS core course.
2. A major who has taken WGS 150 may also take WGS 350 in lieu of one of the required disciplinary courses. WGS 350 will be counted toward the area requirement that most reflects the course’s content during the relevant term.
3. In order to achieve some balance in approach, students must complete at least six semester hours each in both social sciences (anthropology, political science, psychology, sociology, and social work) and humanities (literature, arts, history, philosophy, and religious studies) courses. For this reason, social sciences must normally serve as the first, second, or third area, and not as the fourth.
4. Other courses may be counted toward the major, with approval of the program director, and depending on topic and content during a given semester.
5. This requirement may be satisfied with courses that are also used to fulfill the area requirements. Of the six semester hours, three must be from a course that emphasizes race, and/or that takes a multicultural approach, within a U.S. or European context; the other three must be from a course that focuses on a non-U.S./European context or that takes a comparative international approach.

Minor in Women’s and Gender Studies (wgs)

Women’s and Gender Studies 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 150 Intro Wm&amp;Gndr Stdies</td>
<td>3</td>
</tr>
<tr>
<td>or WGS 310 Fem Thry &amp; Mthd</td>
<td></td>
</tr>
<tr>
<td>or WGS 350 Fem Social Change</td>
<td></td>
</tr>
</tbody>
</table>

Select twelve semester hours from at least three different academic disciplines (300/400 level) 2

<table>
<thead>
<tr>
<th>Total Hours</th>
<th>12</th>
</tr>
</thead>
</table>

1. Students who wish to minor in Women’s and Gender Studies should contact the director of the Women’s and Gender Studies Program.
2. A student may, alternatively, take two of the indicated WGS core courses (WGS 150, WGS 310, WGS 350) and three upper-level courses from three different disciplines.

Courses

WGS 150. Intro Wm&Gndr Stdies. 3 Hours

INTRODUCTION TO WOMEN’S AND GENDER STUDIES - Introduction to history, methods, and key debates in Women’s and Gender Studies. Intersectional (studying gender as it intersects with other social identity categories such as race, class, and sexuality), multi- or interdisciplinary (drawing from the arts, humanities, social sciences, and natural sciences), and multicultural in approach. Prerequisite(s): Restricted to students with no more than six semester hours applicable to a WGS major or minor.

WGS 310. Fem Thry & Mthd. 3 Hours

FEMINIST THEORY AND METHODOLOGY - Exploration of the intersections of feminist epistemology, methodology, politics, and ethics. Consideration and comparison of a range of theories about gender, power, and knowledge that have shaped the development of feminist and womanist thought, research, practice, and movement in the U.S. and in other parts of the world. Prerequisite(s): WGS 150 or six semester hours prior WGS credit.

WGS 350. Fem Social Change. 1-3 Hours

FEMINIST SOCIAL CHANGE - Exploration of the methods and priorities of feminist social change efforts in varying national, cultural, and/or religious contexts, including outside of the U.S. and Europe. Investigation of the nature, possibilities, and challenges of global/transnational feminist movement(s). Prerequisite(s): WGS 150 or six semester hours prior WGS credit.

WGS 380. Special Topics in WGS. 1-3 Hours

SPECIAL TOPICS IN WOMEN’S AND GENDER STUDIES - Intensive examination of current thematic, theoretical, or methodological issues in the field of Women’s and Gender Studies. Consult composite for topics. May be repeated as topic changes. Prerequisite(s): WGS 150 or WGS 310 or WGS 350 or six semester hours prior WGS credit.

WGS 390. Service Lrng in WGS. 1-3 Hours

SERVICE-LEARNING IN WOMEN’S AND GENDER STUDIES - Individualized placements in community organizations that enable students to apply and enrich their formal studies by engaging in service work that addresses women’s needs and/or advances social justice in relation to gender. May be done as an independent or group study under the direction of a WGS faculty member. May also be done in conjunction with another course. May be repeated up to a maximum of three semester hours. Prerequisite(s): WGS 150 or WGS 310 or WGS 350; permission of program director.

WGS 477. Honors Thesis. 3 Hours

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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

WGS 478. Honors Thesis. 3 Hours

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 three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval 477 and approval of University Honors Program.
WGS 480. Ind Study in WGS. 3 Hours
INDEPENDENT STUDY IN WOMEN’S AND GENDER STUDIES -
Individual investigations of special topics in the field of Women’s and
Gender Studies under faculty direction. May be repeated under special
circumstances. No more than six semester hours of WGS 480 may count
toward the major. Prerequisite(s): WGS 150 or WGS 310 or WGS 350;
approval of program director.

WGS 490. Senior Sem in WGS. 3 Hours
SENIOR SEMINAR IN WOMEN’S AND GENDER STUDIES -
Concentration on a particular topic or problem in Women’s and Gender
Studies, with focus on critical theories, methodologies, ethics and
practices appropriate for advanced feminist research. Emphasis
on integration (e.g. of feminist theory, methods, and practice) and
interdisciplinarity. May require students either to work collaboratively on a
single research project or to apply certain theories or methods central to
the seminar in their exploration of individual projects. May be repeated as
topics change. Prerequisite(s): WGS 150 or WGS 350, WGS 310.
School of Business Administration

Paul Bobrowski, Dean
Elizabeth Gustafson, Associate Dean
Paul Sweeney, Associate Dean

Mission
The School of Business Administration is a learning community committed in the Catholic and Marianist tradition to educating the whole person and to connecting learning and scholarship with leadership and service in an innovative business curriculum designed to prepare ethical leaders for successful careers in a global business environment.

Through the curriculum and co-curriculum of the School, students develop the ability to integrate learning across disciplines, apply the theory they are learning to real business problems, and lead with ethics and integrity. Success in business requires an understanding of human values and the society in which business operates as well as mastery of the various areas of business. For this reason, the undergraduate curriculum includes three areas of coursework:

- A foundation in the liberal arts (which includes the University General Education Program)
- A firm grounding in the common body of business knowledge (core business requirements)
- Specialization in a business major

Curriculum Overview
The undergraduate curriculum for students earning a BS in Business Administration includes three areas of coursework:

- A foundation in the liberal arts (which includes the University General Education Program)
- A firm grounding in the common body of business knowledge (core business requirements)
- Specialization in a business major

All business students follow essentially the same curriculum during their first and second years, regardless of major. This curriculum consists of a common set of liberal arts and core business requirements with the first year mostly devoted to liberal arts requirements.

In the third and fourth years, all business students also take a common set of upper level liberal arts and core business requirements in addition to courses to complete their chosen major.

For information on majors, minors and certificates offered by the School of Business Administration and their requirements, visit the Programs of Study link.

Each major requires several hours of general electives, typically 3-12 hours depending upon the major, which students often use to support an additional major or minor.

Students need 123 hours to graduate, with 54 hours at the upper level (300-400).

Students should consult with their academic advisor in the SBA Center for Academic Success in addition to tracking their own progress towards degree requirements.

Liberal Arts Requirements 48

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
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Business Requirements 45

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ACC 207</td>
<td>Intro-Financial Acc</td>
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<tr>
<td>ACC 208</td>
<td>Intro-Managerial Acc</td>
<td>3</td>
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<tr>
<td>BAI 150</td>
<td>Bus Educ Planning</td>
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<tr>
<td>BAI 103L</td>
<td>Bus Computing Lab</td>
<td>1</td>
</tr>
<tr>
<td>BAI 151</td>
<td>Bus Integratn Exp</td>
<td>1</td>
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<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
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<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microcon</td>
<td>3</td>
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<tr>
<td>ECO 204</td>
<td>Prin of Macroecon</td>
<td>3</td>
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<tr>
<td>FIN 301</td>
<td>Intro to Financial Mgt</td>
<td>3</td>
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<tr>
<td>MGT 201</td>
<td>Legal Envrnmt-Bus</td>
<td>3</td>
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<td>MGT 301</td>
<td>Organiztnl Behavior</td>
<td>3</td>
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<td>MGT 490</td>
<td>Managing the Entrprise</td>
<td>3</td>
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<tr>
<td>MIS 301</td>
<td>Info Sys in Org</td>
<td>3</td>
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<tr>
<td>MKT 301</td>
<td>Prin of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>ECO 301</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Major Requirements
Students must complete 123 total semester hours to graduate.

the BS in Business Administration including:

1. The candidate must successfully complete all course requirements for
Degree Requirements

participate.

for admission into graduate school during their fourth year in order to

Normally requires a fifth year of study. Students must apply and qualify

Accounting, coupled with an MBA degree is also available. This program

A Bachelor of Science in Business Administration with a major in

Minors are also available in:

• Business Administration (p. 268) (non-business majors only)

The Certificate in Alternative Investments (p. 270) is available to all

Double majors and minors in business administration programs, and also

in non-business programs, are available. A maximum of seven hours of

coursework can double count between double majors and a major and a

minor. Interested students should consult with their academic advisor in

the SBA Center for Academic Success for details.

A Bachelor of Science in Business Administration with a major in

accounting, coupled with an MBA degree is also available. This program

normally requires a fifth year of study. Students must apply and qualify for

admission into graduate school during their fourth year in order to participate.

Degree Requirements

1. The candidate must successfully complete all course requirements for

the BS in Business Administration including:

a. courses in the liberal arts required by the University General

Education and Competency program, including the completion of a

three course Thematic Cluster;

b. courses in business and liberal arts required for all School of

Business Administration (SBA) students;

c. courses required to complete a major in the SBA.

2. Students must complete 123 total semester hours to graduate.

a. Courses totaling 54 semester hours must be at the 300-400 level.
Internship

Internships are defined as professional work experience. 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 major. It is an option open to all undergraduate students pursuing four-year programs.

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 prior to beginning the internship 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. Assistance in finding internships is available from Career Services, department chairs, and faculty.

Academic credit may be approved for a successful internship. Such credit is applied as general elective credit only. 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 designee for further information as soon as they are eligible for participation.

Study Abroad Programs

Students in the School of Business Administration (SBA) may participate in the University of Dayton Summer Study Abroad Programs as well as Semester Exchange Programs with partners throughout the world. Details on both these programs can be found at www.udayton.edu/edabroad and brief descriptions are provided below.

Summer Programs. A variety of summer programs are available for students to consider, each with its own theme and location. For example, students can travel to Europe, South America, Asia, or Africa. Most of these programs are conducted during two separate five-week summer terms. Shorter two-week trips are also available during summer and the Intersession (winter break). The programs are taught by UD faculty and offer students the opportunity to complete required and theme-based elective courses in settings such as Costa Rica, England, Spain, Italy, China, and more. Students participating in Summer Study Abroad register to take at least two classes (6 credit hours) in a summer session. Participants will complete work equivalent to that of courses taken on campus, with the added requirement of applying their studies to the site they are visiting.

Accepted students are required to participate in a comprehensive orientation and preparation class in which features about their destination country are studied along with University safety and security procedures and other pre-departure details. Students on academic or behavioral probation are not permitted to participate in any University study abroad program. All interested students are encouraged to meet with their advisor or the Study Abroad Director well in advance of any travel.

Semester Exchange Programs. Students may also wish to spend an extended time studying overseas. For those students, UD provides several opportunities to take classes with one of our foreign exchange partners throughout the world. Exchanges can be undertaken either during the Fall or Spring semesters, and students will live and study with other domestic and international students at our foreign exchange partner institutions. Courses are typically taught in English, although some partners have foreign language requirements. To ensure courses taken during a semester exchange transfer to UD, students must seek approval by advisors in the Center for International Programs (CIP) as well as their SBA advisor before undertaking an exchange.

Planning for Education Abroad. Students should ideally begin planning during their first year for participation in a study abroad program, determining which courses are normally offered and then holding those courses for their international experience and completing any necessary prerequisites prior to the program. If pre-approved by SBA advisors, the courses taken abroad will then count for the student’s degree program, keeping the student on track to graduate on time or even ahead of schedule.

For more information please contact:

Short Term Study Abroad Exchange Programs/Partner Information
Peter G. Wagner, Director Tina Manco Newton, Exchange Director SBA Study Abroad Programs Center for International Programs AN 119 Rike 208 937-229-2479 937-229-3728 pwagner1@udayton.edu tmanco1@udayton.edu

Programs of Study

To learn more about the available programs in the School of Business Administration, explore the departments in the menu on the right.

Accounting

Major:

• Bachelor of Science in Business Administration, Accounting

Minor:

• Accounting

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.

In addition to other requirements, an accounting major must earn credit in 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 but may be waived for students electing to complete a combined BSBA with a major in accounting and an MBA or completing a second major. All upper-division accounting courses require a minimum grade of “C” in all prerequisite accounting courses, except that ACC 303 and ACC 305 require a minimum of “C+” in ACC 207 and ACC 208. 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, and requirements for professional examinations (e.g., CPA).

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 BSBA/MBA 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**

Donna Street, Chairperson  
Professors Emeriti: Clark, Eley, Fioriti, Geary, Roehm, Rosenzweig  
Mahrt Chair in Accounting: Donna Street  
Professors: Castellano, Larson, Street  
Associate Professors: Brady, Burrows, Greenlee  
Assistant Professors: Archambeault, Webber  
Lecturers: Rogero, Shankar

### Bachelor of Science in business administration with a major in Accounting (ACC)

#### Liberal Arts Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td></td>
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<tr>
<td>CMM 113</td>
<td>Interviewing</td>
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<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
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<tr>
<td>ENG 200</td>
<td>Writing Seminar II</td>
<td>3</td>
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<tr>
<td>HST 103</td>
<td>West and World</td>
<td>3</td>
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<tr>
<td>MTH 128</td>
<td>Finite Math</td>
<td>3</td>
</tr>
<tr>
<td>MTH 129</td>
<td>Calc for Business</td>
<td>3</td>
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<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one business ethics course from:  
- PHL 313 Business Ethics  
- REL 368 Chr Ethics&Bus World

Select one business writing requirement from:  
- ENG 370 Rprt&Proposal Wrtng  
- ENG 371 Technical Commnicatn  
- ENG 372 Business Commnicatn

Select two natural science electives from:  
- BIO 101 General Biology I  
- CHM 200 Chemistry & Society  
- GEO 109 General Geology  
- PHY 105 Phy Sci Energy & Env  
- PHY 108 Phy Sci-Light&Color

Select one social science elective from:  
- ANT 150 Cultural Anthroplogy  
- POL 101 Global Politics  
- POL 201 Amer Political Systems  
- PSY 101 Introductory Psych  
- SOC 101 Prin of Sociology

Art Study elective  
HST elective (300/400 level)  
PHL/REL elective (300/400 level)

#### Business Requirements

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 200</td>
<td>Intro to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Intro to Financial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 206</td>
<td>Intro-Managerial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 207</td>
<td>Intro-Financial Acc</td>
<td>3</td>
</tr>
<tr>
<td>BAI 103L</td>
<td>Bus Computing Lab</td>
<td>1</td>
</tr>
<tr>
<td>BAI 151</td>
<td>Bus Integrat Exp</td>
<td>1</td>
</tr>
<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>Prin of Macroecon</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>Intro to Financial Mgt</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Legal Envirmnt-Bus</td>
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<td>MGT 301</td>
<td>Organiztnl Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 490</td>
<td>Managing the Entrpse</td>
<td>3</td>
</tr>
<tr>
<td>MIS 301</td>
<td>Info Sys in Org</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>Prin of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
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<tr>
<td>ECO elective (300/400 level)</td>
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</table>

### Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACC 303</td>
<td>Managerial Accounting</td>
<td>3</td>
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<tr>
<td>ACC 305</td>
<td>Intrm Financial ACC I</td>
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<tr>
<td>ACC 306</td>
<td>Intrm Financil Acc II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 341</td>
<td>Acc Informtn Sys I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 401</td>
<td>Auditing Principles</td>
<td>4</td>
</tr>
<tr>
<td>ACC 420</td>
<td>Federal Income Taxtn</td>
<td>4</td>
</tr>
<tr>
<td>ACC elective (May be waived for students electing to complete a combined B.S. with a major in accounting and an MBA, or completing a second major. Consult an advisor or the chair of the department for details.)</td>
<td>3</td>
<td></td>
</tr>
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</table>

#### Minor in Accounting (ACC)

**Accounting**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207</td>
<td>Intro-Financial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 208</td>
<td>Intro-Managerial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 305</td>
<td>Intrm Financial ACC I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 306</td>
<td>Intrm Financil Acc II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two ACC electives  

**Total Hours**  
19-21

1 In consultation with the department chairperson.

### Courses

**ACC 200. Intro to Accounting. 3 Hours**  
INTRODUCTION TO ACCOUNTING - Introduction to primarily financial and secondarily 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.

**ACC 207. Intro-Financial Acc. 3 Hours**  
INTRODUCTION TO FINANCIAL ACCOUNTING - Introduction to financial accounting concepts, procedures, and terminology. The accounting framework for recording transactions and reporting to parties external to the organization. Prerequisite(s): Sophomore standing or permission of department chairperson.
ACC 208. Intro-Managerial Acc. 3 Hours
INTRODUCTION TO MANAGERIAL ACCOUNTING - Management use of accounting data in planning and controlling organization activities; cost accounting and analysis of data for management decision making. Prerequisite(s): ACC 207. Corequisite(s): BAI 103L.

ACC 300A. Prin of Financl Acc. 1.5 Hour
PRINCIPLES OF FINANCIAL ACCOUNTING - An introduction to the concepts and procedures underlying financial accounting and financial statements, and the use of financial accounting information for decision making. Credit may not be earned for both ACC 300A and either ACC 200 or ACC 207. Prerequisite(s): ACC 300A; engineering major; sophomore standing; permission of department chairperson.

ACC 300B. Prin of Managrl Acc. 1.5 Hour
PRINCIPLES OF MANAGERIAL ACCOUNTING - An introduction to the concepts underlying the preparation and use of accounting data by managers as they plan, control, and make decisions within an organization. Credit may not be earned for both ACC 300B and ACC 208. Prerequisite(s): ACC 300A; engineering major; sophomore standing; permission of department chairperson.

ACC 303. Managerial Accounting. 3 Hours
MANAGERIAL ACCOUNTING - The production, dissemination, and interpretation of financial and nonfinancial information for use within an organization. Information for planning, decision making, and control. Study of typical cost accounting systems in various organizations. Prerequisite(s): (ACC 207, ACC 208, with minimum grades of 'C+'; junior standing) or permission of department chairperson; Business majors only.

ACC 305. Intrm Financial ACC I. 4 Hours
INTERMEDIATE FINANCIAL ACCOUNTING I - 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. Prerequisite(s): (ACC 207, ACC 208, with minimum grades of 'C+'; junior standing) or permission of department chairperson; Business majors only.

ACC 306. Intrm Financl Acc II. 3 Hours
INTERMEDIATE FINANCIAL ACCOUNTING II - Part II of comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements. Prerequisite(s): ACC 305 with a minimum grade of 'C'.

ACC 341. Acc Informtn Sys I. 3 Hours
ACCOUNTING INFORMATION SYSTEMS I - 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. Prerequisite(s): ACC 305 with a minimum grade of 'C'; (MIS 301 or permission of department chairperson).

ACC 401. Auditing Principles. 4 Hours
AUDITING PRINCIPLES - Study of the concepts, standards, and procedures used to judge and report on the degree of correspondence between quantifiable information and established criteria; the ethical, regulatory, and professional responsibilities of the auditor and introduction to internal, operational, and governmental auditing. Prerequisite(s): ACC 306 with a minimum grade of 'C'; ACC 341 with a minimum grade of 'C'.

ACC 404. Adv Stratgc Cost Mgt. 3 Hours
ADVANCED STRATEGIC COST MANAGEMENT - Study of processes focused on strategic cost management. Topics include balanced scorecards, activity-based costing management, target costing, lean accounting, six sigma, environmental accounting, and performance measurement and control systems. Prerequisite(s): (ACC 303; OPS 301) with a minimum grade of 'C'.

ACC 408. Adv Financial Acctg. 3 Hours
ADVANCED FINANCIAL ACCOUNTING - Study of consolidated financial statements and accounting for business combinations, government organizations, multinational subsidiaries, and foreign currency transactions. Selected IFRS issues are integrated into the course. Prerequisite(s): ACC 306 with a minimum grade of C or permission of department chairperson.

ACC 412A. Contemp Iss-Acctng. 3 Hours
CONTEMPORARY ISSUES IN ACCOUNTING - Seminar covering emerging or controversial issues for the student who has a strong accounting background. Topics include the business and financial situations that underlie accounting problems and controversies, alternative accounting techniques which are accepted or proposed, and the consequences of various accounting practices. Prerequisite(s): ACC 306 or permission of instructor.

ACC 412B. International Acctng. 3 Hours
INTERNATIONAL ACCOUNTING - Study of current topics in international accounting. This course will typically include a week or more of study outside of the U.S. that will include lectures and relevant site visits. In addition to normal tuition, there may be travel and other costs and fees. Foreign locations, countries, topics, and duration may vary. Prerequisite(s): ACC 306 or permission of instructor.

ACC 412C. Internatl Acc-IFRS. 3 Hours
INTERNATIONAL ACCOUNTING-IFRS CERTIFICATE AND RESEARCH - This class includes a comprehensive study of International Financial Reporting Standards (IFRS). Students will complete the Institute of Chartered Accountants in England and Wales’ (ICAEW) IFRS learning and assessment program and upon successful completion earn an IFRS certificate from this globally recognized professional accountability body. Prerequisite(s): ACC 306 or equivalent; permission of instructor. ACC 408 / MBA 603 strongly recommended.

ACC 412D. Internatl Acc-IFRS. 3 Hours
INTERNATIONAL ACCOUNTING-IFRS CERTIFICATE AND RESEARCH - This class is for NON-UD degree seeking students. The class includes a comprehensive study of International Financial Reporting Standards (IFRS). Students will complete the Institute of Chartered Accountants in England and Wales’ (ICAEW) IFRS learning and assessment program and upon successful completion earn an IFRS certificate from this globally recognized professional accountability body. Prerequisite(s): ACC 306 or equivalent; permission of instructor. ACC 408 / MBA 603 strongly recommended.
ACC 420. Federal Income Taxtn. 4 Hours
FEDERAL INCOME TAXATION - Study of federal income tax laws and their application to individuals, partnerships, and corporations. Develop research techniques for federal income tax issues as they relate to preparation of federal individual income tax preparation. 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 with a minimum grade of 'C' or permission of department chairperson.

ACC 421. Taxes & Bus Strategy. 3 Hours
TAXES AND BUSINESS STRATEGY - Primary emphasis is given to analyzing tax planning opportunities for individuals and businesses through the use of in-depth tax research projects. This course builds upon the Federal Income Taxation course to further develop tax policy considerations and discusses possible tax reform. The course provides an introduction to several advanced taxation topics including tax exemption organizations, state and local taxation, international taxation and estate and gift taxation. Prerequisite(s): ACC 420 or permission of instructor.

ACC 441. Acc Informtn Sys II. 3 Hours
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. 3 Hours
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. 3 Hours
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 Wk Expr. 1-6 Hours
PROFESSIONAL WORK EXPERIENCE - 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. Indep Study in Acc. 1-6 Hours
INDEPENDENT STUDY IN ACCOUNTING - Individual research in accounting topics under the guidance and direction of an accounting faculty member. A formal, detailed proposal must be completed and approved by the department chair. Prerequisite(s): Senior status in accounting; permission of department chairperson.

Business Interdisciplinary Studies (BAI)

Minor in Business Administration (BUS)
The minor in Business Administration is available to non-business majors only. The course requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 200</td>
<td>Intro to Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 207</td>
<td>Intro-Financial Acc</td>
<td></td>
</tr>
<tr>
<td>or ACC 208</td>
<td>Intro-Managerial Acc</td>
<td></td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
<td>3</td>
</tr>
<tr>
<td>Select four courses from:</td>
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<tr>
<td>FIN 301</td>
<td>Intro to Financial Mgt</td>
<td></td>
</tr>
<tr>
<td>MGT 201</td>
<td>Legal Envirnmt-Bus</td>
<td></td>
</tr>
<tr>
<td>MGT 301</td>
<td>Organiztnl Behavior</td>
<td></td>
</tr>
<tr>
<td>MIS 300</td>
<td>Survey of Mgt Info Sys</td>
<td></td>
</tr>
<tr>
<td>MKT 300</td>
<td>Survey of MKT</td>
<td></td>
</tr>
<tr>
<td>OPS 300</td>
<td>Intro-Oper&amp;Supply Mgt</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Courses

BAI 103L. Bus Computing Lab. 1 Hour
BUSINESS COMPUTING LABORATORY - Introduction to business software skills including spreadsheets, relational databases, and integration of computer applications. Overview of UD computer ethics policies.

BAI 150. Bus Educ Planning. 1 Hour
BUSINESS EDUCATIONAL PLANNING - Introduction to the School of Business Administration, the University, and educational planning.

BAI 151. Bus Integratn Exp. 1 Hour
BUSINESS INTEGRATION EXPERIENCE - Integrated introduction to major business processes and decision making.

BAI 294. Spec Topics in SBA. 3 Hours
SPECIAL TOPICS IN SBA - Special Topics in SBA.

BAI 400. Dean’s Leadership Lab. 1 Hour
DEAN’S LEADERSHIP LABORATORY - Upper-class student participation in first-year student advising program. Prerequisite(s): Permission of dean’s office.

BAI 497. Lab Work Experience. 1-6 Hours
LABORATORY WORK EXPERIENCE - 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. Prerequisite(s): Permission of dean.

Economics and Finance

Majors:
• Bachelor of Science in Business Administration, Business Economics
• Bachelor of Science in Business Administration, Finance

Minors:
• Business Economics
• Finance

Certificate:
• Alternative Investments

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 (p. 146) and in applied mathematical economics (p. 191) 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
John Rapp, Chairperson
Professors: Caporale, Chen, Frasca, Rapp, Ruggiero
Associate Professors: Gustafson, Mohan, Poitras, Wang
Assistant Professors: Chang, Collier, Zhang
Lecturers: Douglas, John, Livesay, McNew, Shimmin

Business Economics
Economics teaches students to think analytically about problems that arise in business, political, 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.

In addition to other requirements, 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 for the approved breadth requirement courses. The breadth courses should be chosen to complement the economics electives taken by the student.

Faculty
John Rapp, Chairperson
Edmund B. O’Leary Professor of Economics: Ruggiero
Professors: Caporale, Frasca, Rapp, Ruggiero
Associate Professors: Gustafson, Poitras
Assistant Professor: Collier
Lecturer: John

Bachelor of Science in business administration with a major in Business Economics (ECB)

<table>
<thead>
<tr>
<th>Liberal Arts Requirements</th>
<th>48</th>
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<tbody>
<tr>
<td>CMM 110 Group Dec-Making</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111 Inform Public Sp</td>
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</table>

or CMM 112 Persuasive Public Sp

| CMM 113 | Interviewing | 1 |
| ENG 100 | Writing Seminar I | 3 |
| ENG 200 | Writing Seminar II | 3 |
| HST 103 | West and World | 3 |
| MTH 128 | Finite Math | 3 |
| MTH 129 | Calc for Business | 3 |
| PHL 103 | Intro To Philosophy | 3 |
| REL 103 | Intro to Religion | 3 |
| Select one business ethics course from: | 3 |
| PHL 313 | Business Ethics | 3 |
| REL 368 | Chr Ethics & Bus World | 3 |
| Select one business writing requirement from: | 3 |
| ENG 370 | Rprt & Proposal Wrtng | 3 |
| ENG 371 | Technical Communicn | 3 |
| ENG 372 | Business Communicn | 3 |
| Select two natural science electives from: | 6 |
| BIO 101 | General Biology I | 1 |
| CHM 200 | Chemistry & Society | 1 |
| GEO 109 | General Geology | 1 |
| PHY 105 | Phy Sci Energy & Env | 1 |
| PHY 108 | Phy Sci-Light & Color | 1 |
| Select one social science elective from: | 3 |
| ANT 150 | Cultural Anthropology | 1 |
| POL 101 | Global Politics | 1 |
| POL 201 | Amer Political Systems | 1 |
| PSY 101 | Introductory Psych | 1 |
| SOC 101 | Prin of Sociology | 1 |
| Art Study elective | 3 |
| HST elective (300/400 level) | 3 |
| PHL/REL elective (300/400 level) | 3 |

Business Requirements

| ACC 207 | Intro-Financial Acc | 3 |
| ACC 208 | Intro-Managerial Acc | 3 |
| BAI 150 | Bus Educ Planning | 1 |
| BAI 103L | Bus Computing Lab | 1 |
| BAI 151 | Bus Integratn Exp | 1 |
| DSC 210 | Stats For Bus I | 3 |
| DSC 211 | Stats For Bus II | 3 |
| ECO 203 | Prin of Microecon | 3 |
| ECO 204 | Prin of Macroecon | 3 |
| FIN 301 | Intro to Financial Mgt | 3 |
| MGT 201 | Legal Envrnmt-Bus | 3 |
| MGT 301 | Organiztnl Behavior | 3 |
| MGT 490 | Managing the Entrpse | 3 |
| MIS 301 | Info Sys in Org | 3 |
| MKT 301 | Prin of Marketing | 3 |
| OPS 301 | Survy-Oper & Supply Mgt | 3 |
| ECO elective (300/400 level) | 3 |

Major Requirements

| ECO 340 | Managerial Economics | 3 |
FIN 410, Fundamental and Technical Trading (3 credits)

or ECO 441 Econometrics

ECO 490 Sr Sem-Applied Eco

Select two ECO electives

Total Hours

FIN 481L, Trading Lab (1 credit)
FIN 482, Energy Markets (3 credits)
FIN 483, Applied Options Trading (3 credits)

Students seeking the certificate are strongly encouraged to participate in the Flyer Forex Fund.

**Faculty**

John Rapp, Chairperson
William J. Hoven Professor of Finance: Chen
Professor: Chen
Associate Professors: Mohan, Wang
Assistant Professors: Chang, Zhang

Lecturers: Douglas, Livesay, McNew, Shimmin

**Bachelor of Science in business administration with a major in Finance (FIN)**

**Liberal Arts Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>CMM 110 Group Dec-Making</td>
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<tr>
<td>CMM 111 Inform Publ Sp</td>
<td>1</td>
</tr>
<tr>
<td>or CMM 112 Persuasive Publ Sp</td>
<td>1</td>
</tr>
<tr>
<td>CMM 113 Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>ENG 100 Writing Seminar I</td>
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<tr>
<td>ENG 200 Writing Seminar II</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>REL 103 Intro to Religion</td>
<td>3</td>
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</table>

Select one business ethics course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHL 313 Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>REL 368 Chr Ethics&amp;Bus World</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one business writing requirement from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 370 Rprt&amp;Proposal Wrtng</td>
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</tr>
<tr>
<td>ENG 371 Technical Commnicatin</td>
<td>3</td>
</tr>
<tr>
<td>ENG 372 Business Commnicatin</td>
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</table>

Select two natural science electives from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 101 General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 200 Chemistry &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>GEO 109 General Geology</td>
<td>3</td>
</tr>
<tr>
<td>PHY 105 Phy Sci Energy &amp; Env</td>
<td>3</td>
</tr>
<tr>
<td>PHY 108 Phy Sci-Light&amp;Color</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one social science elective from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150 Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>POL 101 Global Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL 201 Amer Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Introductory Psych</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Prin of Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Art Study elective

HST elective (300/400 level)

PHL/REL elective (300/400 level)

**Business Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207 Intro-Financial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 208 Intro-Managerial Acc</td>
<td>3</td>
</tr>
</tbody>
</table>

Business economics majors must earn a grade of C or better in ECO 203 and ECO 204.

**Minor in Business Economics (ECB)**

**Business Economics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECO 203 Prin of Microcon</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204 Prin of Macroecon</td>
<td>3</td>
</tr>
<tr>
<td>ECO 340 Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>or ECO 346 Intrmd MicroEco Anly</td>
<td>3</td>
</tr>
<tr>
<td>ECO 410 Bus&amp;Eco Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>or ECO 441 Econometrics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two ECO electives

Total Hours 18

1 Students may substitute ECO 300 and one more 300 or 400 level ECO course for ECO 203 and ECO 204.

**Finance**

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. A student may choose a general finance curriculum or specialize in courses relating to 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, working capital management, real estate, and insurance.

A major in finance is also excellent preparation for graduate studies in business administration or corporate and securities law.

In addition to other requirements, the major in finance consists of FIN 360, Investments; nine semester hours of 400 level finance electives; and six additional semester hours of 300 or 400 level finance electives. Finance majors must earn at least a C in FIN 301, Introduction to Financial Management. One of the electives may come from: ACC 305, ECO 415, ECO 488, MTH 490.

**Certificate in Alternative Investments:**

Alternative investments encompasses energy markets, foreign exchange markets, commodity markets, and others. The certificate is a leading edge program which significantly enhances employment opportunities for students. An important adjunct to the certificate program is the Flyer Forex Fund (FFF), a leveraged currency portfolio managed by a student-run proprietary trading group. The FFF has two primary goals. One is to educate students in finance by providing them with an in-depth experience trading real money in the spot currency market; the other is to teach students the discipline of money management in order to prepare them for financial management positions. The appropriate courses and the FFF are housed in the Hanley Trading Center. To receive the certificate, and have it posted on an official transcript, students must complete 10 hours of required courses with a minimum grade point average of 3.2 for these four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 481, Fundamental and Technical Trading</td>
<td>3</td>
</tr>
</tbody>
</table>

FIN 482, Energy Markets (3 credits)
FIN 483, Applied Options Trading (3 credits)

Students seeking the certificate are strongly encouraged to participate in the Flyer Forex Fund.

**Faculty**

John Rapp, Chairperson
William J. Hoven Professor of Finance: Chen
Professor: Chen
Associate Professors: Mohan, Wang
Assistant Professors: Chang, Zhang

Lecturers: Douglas, Livesay, McNew, Shimmin
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, ECO 204; differential calculus and basic statistics) or permission of instructor.

MANAGERIAL ECONOMICS - 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.

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.

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.

FIN 360 Investments 3
Select three FIN electives (400 level) 9
Select two FIN electives (300-400 level), one may be from: 6
ACC 305 Intrm Financial ACC I
ECO 415 Game Thry w/Fin App
ECO 488 Prod Eco&Perf Evtn
MTH 490 Readings

Finance majors must earn a grade of C or better in FIN 301.

Minor in Finance (FIN)

Finance
FIN 301 Intro to Financial Mgt 3
FIN 360 Investments 3
Select three FIN electives (at least one at the 400 level) 9

Total Hours 15

Economics Courses

ECO 203. Prin of Microecon. 3 Hours
PRINCIPLES OF MICROECONOMICS - 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.

ECO 204. Prin of Macroecon. 3 Hours
PRINCIPLES OF MACROECONOMICS - 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.

ECO 301. Sem in Market Econ. 3 Hours
SEMINAR IN MARKET ECONOMICS - Market solutions to economic and political issues. Topics vary, but may include issues relating to drugs, gun control, environmental concerns, government interventions, economic and political freedom, and others. Team taught course. Prerequisite(s): ECO 203.
ECO 442. Money and Banking. 3 Hours
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, ECO 204.

ECO 445. Public Finance. 3 Hours
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, ECO 204.

ECO 460. Eco Develop & Growth. 3 Hours
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, ECO 204.

ECO 461. International Econ. 3 Hours
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, ECO 204.

ECO 471. Labor Economics. 3 Hours
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, ECO 204.

ECO 480. Sports Economics. 3 Hours
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 mechanics for restricting competition in that market; problems in achieving an efficient allocation of resources in the sports industry. Prerequisite(s): ECO 203; (DSC 211 or MTH 207) or equivalent.

ECO 485. Urban&Regional Econ. 3 Hours
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 488. Prod Eco&Perf Evtltn. 3 Hours
PRODUCTION ECONOMICS AND PERFORMANCE EVALUATION - Intermediate course in theoretical and applied microeconomic production theory; provides a thorough discussion of the basic techniques of applied production theory and performance evaluation of decision making units. Topics include returns to scale, technical and allocative efficiency, benchmarking, environmental costs, and programming. Prerequisite(s): ECO 203.

ECO 490. Sr Sem-Applied Eco. 3 Hours
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. Typically offered during the spring semester. Economics or Business Economics majors only. Prerequisite(s): Twelve semester hours in Economics.

ECO 491. Honors Thesis. 3 Hours
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. 3 Hours
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. 3 Hours
SEMINAR - Subject varies from time to time. May be taken more than once if topic changes. Prerequisites to be announced.

ECO 496. Co - Op Work Term. 3 Hours
COCOPERATIVE 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. Economics or Business Economics majors only. Prerequisite(s): Permission of department chairperson.

ECO 497. Internship. 1-3 Hours
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 for the economics major. Economics or Business Economics majors only. Prerequisite(s): Forty-five semester hours of credit.

ECO 498. Independent Stdy-Eco. 1-6 Hours
INDEPENDENT STUDY IN ECONOMICS - 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.

Finance Courses
FIN 250. Personal Finance. 3 Hours
PERSONAL FINANCE - 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. Intro to Financial Mgt. 3 Hours
INTRODUCTION TO FINANCIAL MANAGEMENT - 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 200 or ACC 207 or ACC 301); ECO 203; junior standing.

FIN 330. Insurance & Risk Mgt. 3 Hours
INSURANCE AND RISK MANAGEMENT - 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. Prerequisite(s): FIN 301 with minimum grade of C.

FIN 336. Prin of Real Estate. 3 Hours
PRINCIPLES OF REAL ESTATE - 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. Prerequisite(s): FIN 301 with minimum grade of C.

FIN 360. Investments. 3 Hours
INVESTMENTS - 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 with minimum grade of C.

FIN 371. Financial Mkts&Inst. 3 Hours
FINANCIAL MARKETS AND INSTITUTIONS - 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 with minimum grade of C.

FIN 401. Adv Financial Anly. 3 Hours
ADVANCED FINANCIAL ANALYSIS - 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 with minimum grade of C.

FIN 402. Mergers,Acq Corp Gover. 3 Hours
MERGERS, ACQUISITIONS, CAPITAL RESTRUCTURING AND CORPORATE GOVERNANCE - In depth study of company valuation techniques and the influence of the governance structure - the CEO, President, and the Board of Directors - on company value. Prerequisite(s): FIN 301, FIN 360.

FIN 430. Short-Term Fin Mgt. 3 Hours
SHORT-TERM FINANCIAL MANAGEMENT - Covers several areas of the corporate treasury function with a focus on managing current assets and liabilities to enhance the firm's liquidity, profitability, and value. Specific areas include analyzing short-term financial decisions such as financing inventory and receivables, granting, trade credit, and making short-term investments and short-term risk management for interest rates and foreign exchange. This course introduces students to the techniques and practices used to evaluate short-term financial decisions. Prerequisite(s): FIN 301; (FIN 360 or FIN 401).

FIN 450. Interntl Bus Finance. 3 Hours
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 with minimum grade of C.

FIN 460. Portfol Mgt&Sec Anl. 3 Hours
PORTFOLIO MANAGEMENT AND SECURITY ANALYSIS - Advanced valuation theory and security analysis; portfolio construction, evaluation, and management. Prerequisite(s): FIN 360.

FIN 470. Fixed Inc Sec. 3 Hours
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 FIN 371.

FIN 471. Mgt of Fin Institns. 3 Hours
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. Commerical Bank Mgt. 3 Hours
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. Prerequisite(s): FIN 301; (FIN 360 or FIN 371).

FIN 479. Sem in Bnd Ptflo Mgt. 3 Hours
SEMINAR IN BOND PORTFOLIO MANAGEMENT - Theory and practice in active bond portfolio management. Literature and practical issues related to managing a bond fund. Seminar format; students are divided into teams, each responsible for a specific sector of the fixed income market. Prerequisite(s): FIN 301.

FIN 480. Optns&Futures Mkts. 3 Hours
OPTIONS AND FUTURES MARKETS - Study of options, futures, and other derivatives fundamentals, trading strategies, hedging, speculation, and arbitraging, pricing theories, and market regulations. Prerequisite(s): FIN 301; (FIN 360 or FIN 371).

FIN 481. Fundmntal&Tech Trdg. 3 Hours
FUNDAMENTAL AND TECHNICAL TRADING - The art and science of speculative foreign exchange trading, focusing on spot trading of Euros. Students implement a trading plan in a real foreign exchange environment under a set risk management policy. Students learn to watch the market, analyze profitable situations, and produce winning trades. Prerequisite(s): FIN 301.

FIN 481L. Trading Lab. 1 Hour
TRADING LABORATORY - Prepares students to find positions in proprietary funds, hedge funds, and energy or commodity firms. Focuses on effective communication, résumé writing, interviewing techniques, job negotiation techniques, and the optimal use of e-mail and personal networks and references. Prerequisite(s): FIN 481 or FIN 482 (may be taken as a corequisite).
FIN 482. Energy Markets. 3 Hours
ENERGY MARKETS - Energy market portfolio skills: physicality of natural gas market, natural gas pricing, natural gas portfolio transactions including hedging, basic risk management. VaR simulation produced, power pricing and risk management, weather hedging, credit derivatives and their use in energy. Oil basics and pricing a tolling agreement. Prerequisite(s): FIN 301.

FIN 483. Applied Options Trdg. 3 Hours
APPLIED OPTIONS TRADING - Comprehensive and detailed analysis of options-pricing, risk characteristics, and their dynamic behavior in the context of the management of a portfolio of options. The underlying market used is the Euro/US dollar futures. The emphasis is on option strategic trading, position management, and the calculation of option risks and profit optimization. Prerequisite(s): FIN 301, 481.

FIN 484. Adv Trdg Techniques. 3 Hours
ADVANCED TRADING TECHNIQUES - Topics include appropriate leverage, when to take profits, when to have a stop loss, and hedging strategies. Students will learn to write short-term trading plans encompassing fundamental news events and technical charting, then implement a longer view. Each student is expected to open a real micro account from $300-$500. Prerequisite(s): FIN 301, 481.

FIN 485. Financial Modeling. 3 Hours
FINANCIAL MODELING - The objective is to strengthen students understanding of selected financial theory topics through the use of Excel and Visual Basic for Applications (VBA). The emphasis is on applying financial theory presented in other courses. Students learn how VBA significantly enhances the power of Excel. Prerequisite(s): FIN 301.

FIN 486. Algthrnc Mdlng Curr. 3 Hours
ALGORITHMIC MODELING IN CURRENCY - Algorithmic trading models are developed using spot contracts with Euros and Australian dollars. Students work in teams to implement hedging strategies of non-trending Euro risk with Australian dollars. Teams will meet and work with outside Flyer Forex Fund directors. Students need to be proficient in advanced Excel techniques. Prerequisite(s): FIN 301.

FIN 487. Bond Derivatives Sem. 3 Hours
BOND DERIVATIVES SEMINAR - Topics include fixed income basics, bond futures, duration management, the repo market, callable bonds and bond ladders, asset backed securities and death bonds, mortgage backed securities, inflation bonds, Fed fund futures and binary options, and diversification and suitability analysis. Valuable for those seeking to pass level 2 of the CFA exam. Prerequisite(s): FIN 301.

FIN 489. Pers Financial Cnslt. 3 Hours
PERSONAL FINANCIAL CONSULTING - Subject varies from time to time. May be taken more than once if the topic changes.

FIN 491. Honors Thesis. 3 Hours
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. 3 Hours
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. Sem in Investments. 3 Hours
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. Open only to Davis Center members. Prerequisite(s): FIN 360 and permission of department chair.

FIN 496. Co-Op Work Term. 1-3 Hours
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. Finance majors only. Prerequisite(s): Permission of department chairperson.

FIN 497. Internship. 1-3 Hours
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. Finance majors only. Prerequisite(s): Forty-five semester hours of credit.

FIN 498. Studies in Finance. 1-6 Hours
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.

International Business

Major:
- Bachelor of Science in Business Administration, International Business

Minor:
- International Business

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.

In addition to other requirements, the International Business major requires ECO 460 or ECO 461, FIN 450, MGT 403, MKT 440, INB 302, ING 450 and one international elective. This elective may come from the courses listed above, which are not selected as a required course, or from the following international business electives: ACC 412, INB 300, 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. 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 is required. This foreign language requirement is waived for double majors with another SBA major. An international learning experience is 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.

Terence Lau, Director

**Bachelor of Science in business administration with a major in International Business (INB)**

<table>
<thead>
<tr>
<th>Liberal Arts Requirements</th>
<th>48</th>
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<tbody>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
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<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
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<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
</tr>
<tr>
<td>CMM 113</td>
<td>Interviewing</td>
</tr>
<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
</tr>
<tr>
<td>ENG 200</td>
<td>Writing Seminar II</td>
</tr>
<tr>
<td>HST 103</td>
<td>West and World</td>
</tr>
<tr>
<td>MTH 128</td>
<td>Finite Math</td>
</tr>
<tr>
<td>MTH 129</td>
<td>Calc for Business</td>
</tr>
<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
</tr>
<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
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<tr>
<td>Select one business ethics course from:</td>
<td>3</td>
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<tr>
<td>PHL 313</td>
<td>Business Ethics</td>
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<tr>
<td>REL 368</td>
<td>Chr Ethics&amp;Bus World</td>
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<tr>
<td>Select one business writing requirement from:</td>
<td>3</td>
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<tr>
<td>ENG 370</td>
<td>Rprt&amp;Proposal Wrtng</td>
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<tr>
<td>ENG 371</td>
<td>Technical Commnicatin</td>
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<tr>
<td>ENG 372</td>
<td>Business Commnicatin</td>
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<tr>
<td>Select two natural science electives from:</td>
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<tr>
<td>BIO 101</td>
<td>General Biology I</td>
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<tr>
<td>CHM 200</td>
<td>Chemistry &amp; Society</td>
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<tr>
<td>GEO 109</td>
<td>General Geology</td>
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<tr>
<td>PHY 105</td>
<td>Phy Sci Energy &amp; Env</td>
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<tr>
<td>PHY 108</td>
<td>Phy Sci-Light&amp;Color</td>
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<tr>
<td>Select one social science elective from:</td>
<td>3</td>
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<tr>
<td>ANT 150</td>
<td>Cultural Anthropoly</td>
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<td>POL 101</td>
<td>Global Politics</td>
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<td>POL 201</td>
<td>Amer Political Systems</td>
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<td>PSY 101</td>
<td>Introductory Psych</td>
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<tr>
<td>SOC 101</td>
<td>Prin of Sociology</td>
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<tr>
<td>Art Study elective</td>
<td>3</td>
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<tr>
<td>HST elective (300/400 level)</td>
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<tr>
<td>PHL/REL elective (300/400 level)</td>
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**Business Requirements**

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<tbody>
<tr>
<td>ACC 207</td>
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<td>ACC 208</td>
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<td>BAI 150</td>
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<td>BAI 151</td>
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<td>MGT 490</td>
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<td>MIS 301</td>
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<td>MKT 301</td>
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<td>OPS 301</td>
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<tr>
<td>ECO elective (300/400 level)</td>
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**Major Requirements**

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<tbody>
<tr>
<td>ECO 460</td>
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<tr>
<td>or ECO 461</td>
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<tr>
<td>FIN 450</td>
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<td>INB 302</td>
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<td>INB 450</td>
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<tr>
<td>MGT 403</td>
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<tr>
<td>MGT 440</td>
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<tr>
<td>International elective (see choices above)</td>
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**Minor in International Business (INB)**

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<tbody>
<tr>
<td>INB 302</td>
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<tr>
<td>INB 450</td>
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<tr>
<td>Select two courses from:</td>
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<td>ECO 460</td>
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<tr>
<td>ECO 461</td>
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<td>FIN 450</td>
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<td>INB 300</td>
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<tr>
<td>MGT 403</td>
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<td>MKT 440</td>
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**Total Hours**

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<th>21</th>
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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 is required. This foreign language requirement is waived for double majors with another SBA major. An international learning experience is required. This may include:

- participation in a study abroad program
- attendance at an educational institution outside the United States
- an international business internship or co-op

**International Business**

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<tbody>
<tr>
<td>INB 302</td>
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<td>ECO 461</td>
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<td>FIN 450</td>
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<td>INB 300</td>
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<tr>
<td>MGT 403</td>
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<tr>
<td>MKT 440</td>
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</table>

**Total Hours**

| 12 |
Courses

INB 300. Top-Int Bus&Culture. 1-3 Hours
TOPICS IN INTERNATIONAL BUSINESS AND CULTURE - Comparative analysis of various cultures and their impact on international business operation. May be taken more than once if the topics or cultures change.

INB 302. Survey of Intl Bus. 3 Hours
SURVEY OF INTERNATIONAL BUSINESS - Introduction to international business and how it is different from domestic business. Globalization and its effects, differences in culture, political, and economic systems across borders. Required of International Business majors and minors.

INB 350. Dng Bus Emrging Mkts. 3 Hours
DOING BUSINESS IN EMERGING MARKETS - This course is designed to give students an opportunity to explore and understand the challenges to global business in emerging markets, including those in Africa, Asia, Latin and Central America, the Middle East, and the former East Bloc. The course examines commonalities of different regions and countries while highlighting cultural, economic, and sociopolitical differences. Additionally, social responsibility and the emergence of micro-lending and nontraditional forms of business operation will be presented.

INB 450. Capstone Intrnl Bus. 3 Hours
SEMIRN IN CURRENT GLOBAL ISSUES - Senior capstone seminar in International Business. An examination of factors necessary for global competitiveness including foreign direct investment, strategy of international business, entering foreign markets, global production and logistics, global marketing and R&D, and global human resource management. Includes integrative project. Required of International Business majors and minors. Prerequisite(s): INB 302; senior standing.

INB 491. Honors Thesis. 3 Hours
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 Honors Program and the International Business program director.

INB 492. Honors Thesis. 3 Hours
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 Honors Program and the International Business program director.

INB 497. Internship-Elective Cred. 1-3 Hours
INTERNATIONAL INTERNSHIP - Practical international work experience closely associated with student’s major, minor, certificate program. Permission of program director required. See internship coordinator for details.

Minors:

- Entrepreneurship
- Leadership
- Marketing

The management program offered by the management/marketing department includes a major or minor in two distinct areas: leadership and entrepreneurship. The department also offers a major or a minor in marketing.

Faculty

Dean B. McFarlin, Chairperson
NCR Professor of Global Leadership Development: McFarlin
Professors: Bickford, King, McFarlin, Sweeney
Associate Professors: Janney, Kiewitz, Lau
Assistant Professors: Kenworthy, Meek, Sullivan
Lecturers: Chelle, Forlani, Gentner, Miller
Adjunct Faculty: Brady, Csokasy, Dudon, Franks, June, Lewis, Wood

Entrepreneurship

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
- 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 February 15 (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, non-SBA applicants will be considered through August 1 on a space available basis. Non-SBA students interested in the Entrepreneurship major cannot be admitted until they are officially transferred into the SBA. Normally, no more than 90 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 work as consultants with an entrepreneur to solve an actual problem within an existing entrepreneurial business. Entrepreneurship majors can also participate in the:

- Everest Real Estate Challenge (open to ENT majors only)
- Flyer Angels (a student-run investment organization open to ENT majors only)

Management and Marketing

Majors:

- Bachelor of Science in Business Administration, Entrepreneurship
- Bachelor of Science in Business Administration, Leadership
- Bachelor of Science in Business Administration, Marketing
- Bachelor of Science in Business Administration, Marketing Major with Sales Management Emphasis
• the UD Business Plan Competition (open to all students, see www.udbpc.com (catalog.udayton.edu/undergraduate/schoolofbusinessadministration/programs/ofstudy/managementandmarketing/www.udbpc.com))

For business majors, the minor in entrepreneurship consists of fifteen semester hours.

For non-business majors, the minor in entrepreneurship consists of eighteen semester hours.

Bachelor of Science in business administration with a major in Entrepreneurship (ENT)

Liberal Arts Requirements 48

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>Group Dec-Making</td>
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<td>CMM 111</td>
<td>Inform Public Sp</td>
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<td>CMM 112</td>
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Art Study elective 3

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<td>PHL/REL elective (300/400 level)</td>
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Business Requirements 45

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<td>Intro-Managerial Acc</td>
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ECO elective (300/400 level) 3

Major Requirements 18

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<td>Entrep Soph Exper II (Must be taken second semester Sophomore Year)</td>
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<td>Financing Entp Vent</td>
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<td>MGT 430</td>
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Select two courses from: 6

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<td>MGT 423</td>
<td>HRM in Emerging Firms</td>
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Minor in Entrepreneurship (ENT)

Entrepreneurship (business majors)

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<tr>
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Select three courses from: 1

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<td>MGT 425</td>
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<td>MGT 429</td>
<td>Curr Issues-Entrpre</td>
<td></td>
</tr>
<tr>
<td>MGT 435</td>
<td>New Product Devlp</td>
<td></td>
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</table>

Total Hours 15

1 A student minoring in entrepreneurship 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 intention. It is recommended that the student speak to the department to determine the course offerings schedule.
Entrepreneurship (non-business majors)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<tr>
<td>MGT 201</td>
<td>Legal Environmt-Bus</td>
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</tr>
<tr>
<td>MGT 320</td>
<td>New Venture Creation</td>
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</tr>
<tr>
<td>MGT 321</td>
<td>Financing Entp Vent</td>
<td>3</td>
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</tbody>
</table>

Select one course from:

- MGT 402  Leadership & Motivation
- MGT 420  Entrepreneur Marketing
- MGT 421  Sm Business Management
- MGT 422  Business Plans
- MGT 423  HRM in Emerging Firms
- MGT 424  Family Business Mgt
- MGT 425  Franchising
- MGT 429  Curr Issues-Entrepreneurship
- MKT 435  New Product Devp

Total Hours 15

Leadership

Students majoring or minorin in leadership will develop understanding and competencies in:

- Motivation
- Group dynamics
- Team processes
- Cross-cultural management
- Employee training and development
- 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
- MIS

A leadership major combined with a major or minor in a business function creates an outstanding combination for employment.

Bachelor of Science in business administration with a major in Leadership (LDR)

Liberal Arts Requirements 48

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
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<td>Inform Public Sp</td>
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or CMM 112  Persuasive Public Sp

CMM 113  Interviewing 1

ENG 100  Writing Seminar I 3

ENG 200  Writing Seminar II 3

HST 103  West and World 3

MTH 126  Finite Math 3

MTH 129  Calc for Business 3

PHL 103  Intro to Philosophy 3

REL 103  Intro to Religion 3

Select one business ethics course from:

- PHL 313  Business Ethics
- REL 368  Chr Ethics & Bus World

Select one business writing requirement from:

- ENG 370  Rprt & Proposal Wrtng
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Select two natural science electives from:

- BIO 101  General Biology I
- CHM 200  Chemistry & Society
- GEO 109  General Geology
- PHY 105  Phy Sci Energy & Env
- PHY 108  Phy Sci-Light & Color

Select one social science elective from:

- ANT 150  Cultural Anthropology
- POL 101  Global Politics
- POL 201  Amer Political Systems
- PSY 101  Introductory Psych
- SOC 101  Prin of Sociology

Art Study elective 3

HST elective (300/400 level) 3

PHL/REL elective (300/400 level) 3

Business Requirements 45

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>MIS 301</td>
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Major Requirements 18

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MGT 401 Orgn,Dsn,Cul&Change 3  
MGT 402 Leadership&Motivatn 3  
MGT 410 Senior Sem-Lrdshp 3  
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**Minor in Leadership (LDR)**

**Leadership**

MGT 301 Organiztnl Behavior 3  
MGT 401 Orgn,Dsn,Cul&Change 3  
MGT 402 Leadership&Motivatn 3  
Select two courses from: 6  
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<td>MGT 429</td>
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<td>MKT 411</td>
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Total Hours 15  

1 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.

**Marketing**

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  
- Retailing  
- Brand management  
- 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 also have the option to earn an emphasis in Sales Management as part of their major. Specifically, to earn the emphasis, majors must select all three of their electives from a required list of marketing courses that focus on sales and associated issues. This emphasis is very attractive to many prospective employers. The marketing program also competes annually in the National Collegiate Sales Competition. Marketing majors wishing to participate in the competition apply to be on the UD team in the fall.

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 as well as successful completion of internship/co-op preparation activities required by the department. Junior and senior marketing majors can also apply to participate in the P&G Marketing Challenge, a competition conducted every semester for marketing students.

**Faculty**

Dean B. McFarlin, Chairperson  
Associate Professors: Pan, Sparks, Wells  
Assistant Professors: Davidson, Durmusoglu, Harmon, Hirunyawipada, Watson  
Lecturers: Dickey, Krystofik  
Adjunct Faculty: Blanford, Sinnott, Woeste

**Bachelor of Science in business administration with a major in Marketing (MKT)**

**Liberal Arts Requirements** 48  
CMM 110 Group Dec-Making 1  
CMM 111 Inform Public Sp 1  
or CMM 112 Persuasive Public Sp 1  
CMM 113 Interviewing 1  
ENG 100 Writing Seminar I 3  
ENG 200 Writing Seminar II 3  
HST 103 West and World 3  
MTH 128 Finite Math 3  
MTH 129 Calc for Business 3  
PHL 103 Intro To Philosophy 3  
REL 103 Intro to Religion 3  
Select one business ethics course from: 3  
PHL 313 Business Ethics  
REL 368 Chr Ethics&Bus World  
Select one business writing requirement from: 3  
ENG 370 Rprt&Proposal Wrtng  
ENG 371 Technical Commnicatn  
ENG 372 Business Commicatn  
Select two natural science electives from: 6  
BIO 101 General Biology I  
CHM 200 Chemistry & Society  
GEO 109 General Geology  
PHY 105 Phy Sci Energy & Env  
PHY 108 Phy Sci-Light&Color  
Select one social science elective from: 3  
ANT 150 Cultural Anthropology  
POL 101 Global Politics  
POL 201 Amer Political Systems  
PSY 101 Introductory Psych
### Minor in Marketing (MKT)

**Marketing (business majors)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 301</td>
<td>Prin of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four MKT electives (300/400 level)

**Total Hours**

15

**Marketing (non-business majors)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 300</td>
<td>Survey of MKT</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four MKT electives (300/400 level)

**Total Hours**

15

---

1. In a pattern selected in consultation with an academic advisor.

### Management Courses

**MGT 201. Legal Envirnmt-Bus. 3 Hours**

LEGAL ENVIRONMENT OF BUSINESS - Survey of the legal environment in which businesses operate. 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 responsibilities of businesses to clients and customers, and liability issues. Prerequisite(s): Sophomore standing.

**MGT 220. Entrep Soph Exper I. 2 Hours**

ENTREPRENEURSHIP SOPHOMORE EXPERIENCE I - 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 marshaling the resources (among them, financial, human, technical, and motivational) to launch the business. Course is coordinated through the Crotty Center for Entrepreneurial Leadership. Prerequisite(s): Entrepreneurship major; sophomore standing; overall 2.7 GPA. Corequisite(s): ACC 207; MGT 201.

**MGT 221. Entrep Soph Exper II. 1 Hour**

ENTREPRENEURSHIP SOPHOMORE EXPERIENCE II - 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 Entrepreneurial Leadership. Prerequisite(s): ACC 207; MGT 201, MGT 220; Entrepreneurship major; overall 2.7 GPA. Corequisite(s): ACC 208.

**MGT 301. Organiztnl Behavior. 3 Hours**

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): Sophomore standing.

**MGT 302. Managerial Skills. 3 Hours**

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): Sophomore standing.

**MGT 313. Negotiation. 3 Hours**

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-Hum Resources. 3 Hours**

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 318. Management & Society. 3 Hours
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. 3 Hours
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. Fall sections open to Entrepreneurship majors only with overall 2.7 GPA. Prerequisite(s): (ACC 200 or ACC 208); MGT 201; junior standing.

MGT 321. Financing Entp Vent. 3 Hours
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. Fall sections open to Entrepreneurship majors only with overall 2.7 GPA. Prerequisite(s): ACC 200 or (ACC 207, ACC 208); junior standing. Corequisite(s): FIN 301 or MGT 320.

MGT 401. Orgn, Dsn, Cul&Change. 3 Hours
ORGANIZATIONAL DESIGN, CULTURE AND CHANGE - 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 processes for organizational design and change, power, and information processing. Prerequisite(s): MGT 301; junior standing.

MGT 402. Leadership & Motivation. 3 Hours
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-Cult Managemnt. 3 Hours
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. 3 Hours
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 Traing & Dev. 3 Hours
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. Curr Iss-L'ship. 3 Hours
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 Sem-Lrdshp. 3 Hours
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, MGT 402; Leadership major; senior standing.

MGT 414. Multinatntnl Corp Mgt. 3 Hours
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. Enrepenrl Marketing. 3 Hours
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 300 or MKT 301; junior standing.

MGT 421. Sm Business Managmnt. 3 Hours
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. Prerequisite(s): ACC 200 or 208; MGT 201; junior standing.

MGT 422. Business Plans. 3 Hours
BUSINESS PLANS FOR EMERGING FIRMS - This course explores multiple business models for launching a new venture. Business models are examined in terms of the type of product/service being offered as well as the goals of the entrepreneur, firm growth, and time to market. The benefits and costs of different types of business plans will be examined relative to the opportunities that students may wish to pursue. Students taking this course must have a potential business opportunity in mind. Prerequisite(s): MGT 320, MGT 321; junior standing; ENT major; permission of department chairperson.
MGT 423. HRM in Emerging Firms. 3 Hours
HUMAN RESOURCE MANAGEMENT IN THE EMERGING FIRM - This course explores issues unique to the human resource management (HRM) needs and challenges facing entrepreneurs and their firms. Emphasis is placed on how entrepreneurs can create effective HRM systems in the areas of staffing, recruitment and selection, compensation, motivations, and employee development. Care will be given to address the changes in HRM needs as the firm evolves through several transitional stages. Prerequisite(s): MGT 301; junior standing.

MGT 424. Family Business Mgt. 3 Hours
FAMILY BUSINESS MANAGEMENT - This course explores topics relevant to entrepreneurs within the family business environment. Specific topics examined will include how family businesses emerge and evolve as well as the unique challenges often found in family business context (e.g., dealing with family conflicts, how to motivate and evaluate employees when a mix of family and non-members are involved, and planning for succession). Prerequisite(s): MGT 320, MGT 321; junior standing.

MGT 425. Franchising. 3 Hours
FRANCHISING - Provides an overview of business franchising and how franchising can be used to grow a business concept. Students will learn how franchises operate and when to use franchising as a business model. Understanding the complexities of franchising (e.g. which ideas can be franchised, pricing strategies, and territory management) and the keys to success (e.g., the importance of communications, networking, teamwork, leadership) are important goals of the course. Counts as elective credit for ENT/LDR majors and minors. Prerequisite(s): Junior standing; ENT/LDR majors and minors only.

MGT 429. Curr Issues-Entrepen. 3 Hours
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): Junior standing.

MGT 430. Senior Sem-Entrenshp. 3 Hours
SENIOR SEMINAR IN ENTREPRENEURSHIP - Project-based capstone learning experience for Entrepreneurship major. Course objective is to integrate prior coursework through completion of a consulting project with local entrepreneurial firm, including business plan revision, market research, feasibility testing, financial modeling and analysis, and operations analysis. Course is coordinated through the Crotty Center for Entrepreneurial Leadership. Prerequisite(s): MGT 301, MGT 320, MGT 321; Entrepreneurship major; senior standing; 2.7 overall GPA or higher.

MGT 490. Managing the Entrepr. 3 Hours
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): DSC 211; FIN 301; MGT 301; MIS 301; MKT 301; OPS 301; senior standing; Business majors only.

MKT 300. Survey of MKT. 3 Hours
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; sophomore standing.

MKT 301. Prin of Marketing. 3 Hours
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; sophomore standing.
MKT 310. Prin of Selling. 3 Hours
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 MKT 301.

MKT 315. Retail Marketing. 3 Hours
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 MKT 301.

MKT 330. Services Marketing. 3 Hours
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 MKT 301.

MKT 340. Multicultrl Mkt Anly. 3 Hours
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 MKT 301.

MKT 341. Bus To Bus Marketing. 3 Hours
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 MKT 301.

MKT 350. Internet & E-Mkt. 3 Hours
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 MKT 301.

MKT 405. Consumer Behavior. 3 Hours
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 or MKT 301.

MKT 406. Marketing Channels. 3 Hours
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 MKT 301.

MKT 411. Sales Management. 3 Hours
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 300 or MKT 301); MKT 310.

MKT 420. Entpnrl Marketing. 3 Hours
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 MKT 301.

MKT 421. Advertising. 3 Hours
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 MKT 301.

MKT 428. Promotion Mgmnt. 3 Hours
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 MKT 301.

MKT 435. New Product Devlp. 3 Hours
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 300 or MKT 301.

MKT 436. MKT Intelligence. 3 Hours
MARKETING INTELLIGENCE - This course provides an examination of how consumer marketing is evolving in the context of consumer behavior analysis, personalized marketing channels, and computer automation tools. The focus is on analyzing personalized consumer marketing based on consumer behavior. Prerequisite(s): MKT 300 or MKT 301.

MKT 440. Global Marketing. 3 Hours
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 MKT 301.

MKT 445. Sp Top: Internal Mkt. 3 Hours
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 Behv&Mkt Anly. 6 Hours
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; Marketing major; junior standing.

MKT 455. Mkt Planning&Stratgy. 3 Hours
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, ACC 208; MKT 450; Marketing major.

MKT 491. Honors Thesis. 3 Hours
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. Honor Thesis. 3 Hours
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. Sp Top: Marketing. 3 Hours
SPECIAL TOPICS IN MARKETING - Subject varies from time to time. May be taken more than once if topic changes. Prerequisite(s): Vary by topic.

MKT 497. Internship. 1-3 Hours
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): MKT major; junior standing; overall GPA of 2.7 or higher; permission of internship coordinator.

MKT 498. Co-Op Education. 1-3 Hours
COOPERATIVE EDUCATION - Optional full-time work period off campus during the summer or academic year. (See Chapter X; consult Cooperative Education Office for details.) Permission of chairperson or designee required. For general elective credit only. Prerequisite(s): MKT major; overall GPA of 2.7 or higher.

MKT 499. Independent Study. 1-3 Hours
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; senior standing; permission of department chairperson.

Management Information Systems, Operations Management and Decision Sciences

Majors:
- Bachelor of Science in Business Administration, Management Information Systems
- Bachelor of Science in Business Administration, Operations and Supply Management

Minors:
- Management Information Systems
- Business Intelligence
- Cyber Security
- Operations and Supply Management
- Business Analytics

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 and supply management, and minors in business analytics, business intelligence and cyber-security.

Faculty
E. James Dunne, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Amsden, Casey, Hoffer, Vlahos
Sherman-Standard Register Professor of MIS: Thomas Ferratt
Niehaus Chair in Operations Management: John Kanet
Professors: Dunne, Ferratt, Gorman, Kanet, Wells
Associate Professors: Enns, Prasad, Salisbury
Assistant Professors: Harrod, Jacobs, Wynn
Lecturers: Davis, Hall, Wagner

Management Information Systems

The MIS major at the University of Dayton is designed primarily to develop business systems analysts. These professionals analyze and design information systems in business organizations and marshal resources (i.e. manage projects) to bring the systems development effort to successful completion. MIS professionals also facilitate the successful operation and maintenance of organizational information systems.

The major is comprised of eighteen hours (seven courses) of required courses which make up the MIS core and nine hours (three courses) of elective courses taken for breadth or in a focused emphasis. Emphases are designed to enable the MIS major to gain additional depth in a specific area of MIS practice and to facilitate double-majors or minors in other business disciplines. Specific emphases will change from time to time, reflecting the dynamic nature of the MIS discipline. Students should meet with their advisor to decide whether to opt for the breadth option or to select an appropriate emphasis and/or second major/minor consistent with their interests and career goals.

The MIS emphases currently offered are Business Intelligence Emphasis, the Cyber Security Emphasis and the Breadth Option. See elective course selections for each emphasis following the requirements for Bachelor of Science with a Major in Management Information Systems.
Faculty
E. James Dunne, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Amsden, Casey, Hoffer, Vlahos
Sherman-Standard Register Endowed Chair in MIS: Ferratt
Niehaus Chair in Operations Management: Kanet
Professors: Dunne, Ferratt, Kanet, Wells
Associate Professors: Enns, Gorman, Prasad, Salisbury
Assistant Professors: Harrod, Jacobs, Wynn
Lecturers: Davis, Hall, Wagner

Bachelor of Science in business administration with a major in Management Information Systems (MIS)

Liberal Arts Requirements 48
CMM 110 Group Dec-Making 1
CMM 111 Inform Public Sp 1
or CMM 112 Persuasive Public Sp
CMM 113 Interviewing 1
ENG 100 Writing Seminar I 3
ENG 200 Writing Seminar II 3
HST 103 West and World 3
MTH 128 Finite Math 3
MTH 129 Calc for Business 3
PHL 103 Intro To Philosophy 3
REL 103 Intro to Religion 3
Select one business ethics course from:
PHL 313 Business Ethics 3
REL 368 Chr Ethics&Bus World 3
Select one business writing requirement from:
ENG 370 Rprt&Proposal Wrtng 3
ENG 371 Technical Commnicatn
ENG 372 Business Commnicatn 3
Select two natural science electives from:
BIO 101 General Biology I 3
CHM 200 Chemistry & Society 3
GEO 109 General Geology 3
PHY 105 Phy Sci Energy & Env 3
PHY 108 Phy Sci-Light&Color 3
Select one social science elective from:
ANT 150 Cultural Anthropology 3
POL 101 Global Politics 3
POL 201 Amer Political Systems 3
PSY 101 Introductory Psych 3
SOC 101 Prin of Sociology 3
Art Study elective 3
HST elective (300/400 level) 3
PHL/REL elective (300/400 level) 3

Business Requirements 45
ACC 207 Intro-Financial Acc 3
ACC 208 Intro-Managerial Acc 3
BAI 150 Bus Educ Planning 1
BAI 103L Bus Computing Lab 1
BAI 151 Bus Integratin Exp 1
DSC 210 Stats For Bus I 3
DSC 211 Stats For Bus II 3
ECO 203 Prin of Microecon 3
ECO 204 Prin of Macroecon 3
FIN 301 Intro to Financial Mgt 3
MGT 201 Legal Envrnmnt-Bus 3
MGT 301 Organiztnl Behavior 3
MGT 490 Managing the Entrpse 3
MIS 301 Info Sys in Org 3
MKT 301 Prin of Marketing 3
OPS 301 Survy-Oper&Supply Mgt 3
ECO elective (300/400 level) 3

Major Requirements
MIS 305 Prb Slvg wth Vis Tls 1
MIS 325 Programming-Bus Sys 4
MIS 380 Sys Anly & Re-engr 3
MIS 381 Prin of Project Mgt 1
MIS 385 Sys Implmntn-DBMS 3
MIS 465 Pjr I-Anl&Dsn-Teams 3
MIS 475 Pjr II-Dsn&Implm-Tms 3
Track Courses for Breadth, Business Intelligence or Cyber Security 9
(see course selections below)

Total Hours 27

Breadth Option
Select three courses (at least two must be MIS) from: 9
DSC 375 Management Science 3
ECO 410 Bus&Eco Forecasting 3
ECO 441 Econometrics 3
MIS 366 Business Intelligence 3
MIS 368 Prin of Infmtn Sec Mgt 3
MIS 430 Telecommtns&Netwrkg 3
MIS 460 Adv Web Development 3
MIS 467 Data Warehousing 3
MIS 468 Internet Security 3
MIS 499 Indep Study in MIS 3
MKT 436 MKT Intelligence 3
OPS 350 Bus Process Mgt 3

Business Intelligence Emphasis
MIS 366 Business Intelligence 3
MIS 467 Data Warehousing 3
Select one course from:
DSC 375 Management Science 3
ECO 410 Bus&Eco Forecasting 3
ECO 441 Econometrics 3
MIS 368 Prin of Infmtn Sec Mgt 3
MIS 460 Adv Web Development 3
MIS 499 Indep Study in MIS 3
MKT 436 MKT Intelligence 3

Cyber Security Emphasis
MIS 368 Prin of Infmtn Sec Mgt 3
Minors in Management Information Systems (MIS)

Three minors are offered in Management Information Systems: Business Intelligence, Cyber-Security, and Management Information Systems.

**Business Intelligence**

<table>
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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>Info Sys in Org</td>
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<tr>
<td>MIS 305</td>
<td>Prb Slvg wth Vis Tls</td>
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<tr>
<td>MIS 366</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>MIS 385</td>
<td>Sys Implmtn-DBMS</td>
<td>3</td>
</tr>
<tr>
<td>MIS 467</td>
<td>Data Warehousing</td>
<td>3</td>
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<tr>
<td>MIS elective</td>
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<td>Total Hours</td>
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<td>16</td>
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**Cyber-Security**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>3</td>
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<tr>
<td>or MIS 301</td>
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<td></td>
</tr>
<tr>
<td>MIS 305</td>
<td>Prb Slvg wth Vis Tls</td>
<td>1</td>
</tr>
<tr>
<td>MIS 368</td>
<td>Prin of Infmtn Sec Mgt</td>
<td>3</td>
</tr>
<tr>
<td>MIS 430</td>
<td>Telecommtns&amp;Netwrkg</td>
<td>3</td>
</tr>
<tr>
<td>MIS 468</td>
<td>Internet Security</td>
<td>3</td>
</tr>
<tr>
<td>MIS elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>16</td>
</tr>
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</table>

**Management Information Systems**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 300</td>
<td>Survey of Mgt Info Sys</td>
<td>3</td>
</tr>
<tr>
<td>or MIS 301</td>
<td>Info Sys in Org</td>
<td></td>
</tr>
<tr>
<td>MIS 305</td>
<td>Prb Slvg wth Vis Tls</td>
<td>1</td>
</tr>
<tr>
<td>MIS 380</td>
<td>Sys Anly &amp; Re-engr</td>
<td>3</td>
</tr>
<tr>
<td>MIS 381</td>
<td>Prin of Project Mgt</td>
<td>1</td>
</tr>
<tr>
<td>MIS 385</td>
<td>Sys Implmtn-DBMS</td>
<td>3</td>
</tr>
<tr>
<td>Two 300/400 level courses</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

1. Select six additional semester hours: at least three hours must be a 300 or 400 level MIS course (excluding MIS 491, MIS 492, MIS 497, MIS 498, and MIS 499); three additional hours may be either from the list of approved relevant major courses or another 300 or 400 level MIS course (excluding those listed above). A relevant major course is one that features concepts intended to bridge between the MIS minor and the student’s major. For the list of approved relevant major courses see the MIS minor coordinator. Other courses may be taken with approval of the MIS minor coordinator, in consultation with the student’s major advisor(s). Currently approved relevant major courses are: ACC 401, DSC 375, ECO 410, ECO 441, MKT 436, OPS 350, and PSY 445.

**Operations and Supply Management**

The operations and supply management program offered by the Department of Management Information Systems, Operations Management, and Decision Sciences includes a major and a minor in operations and supply management (OPS).

Students who major or minor in operations and supply 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
- Operations consultant

The OPS program is selective. UD students wishing to declare an OPS major must have an overall GPA of 2.8 or higher. Moreover, to declare and/or remain in the program students must earn a grade of B- or higher in the introductory course, OPS 301. Exceptions to these requirements must be approved by the MIS/OM/DSC Department Chair.

In addition to other requirements, the major in Operations and Supply Management requires OPS 350, Business Process Management, DSC 375, Management Science, OPS 401, Operations Planning and Control, OPS 480, Supply Chain Management Strategies, OPS 485, Capstone OPS Project I, OPS 495, Capstone OPS Project II, and six semester hours of OPS electives.

A minor in operations and supply 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 and supply management consists of twelve hours for students in the School of Business Administration and 21 hours for non-business students.

**Faculty**

E. James Dunne, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Amsden, Casey, Hoffer, Vlahos
Sherman-Standard Register Professor of MIS: Ferratt
Niehaus Chair in Operations Management: Kanet
Professors: Dunne, Ferratt, Gorman, Kanet, Wells
Associate Professors: Enns, Prasad, Salisbury
Assistant Professors: Harrod, Jacobs, Wynn
Lecturers: Davis, Hall, Wagner

**Bachelor of Science in business administration with a major in Operations and Supply Management (OPS)**

**Liberal Arts Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td></td>
</tr>
<tr>
<td>CMM 113</td>
<td>Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 200</td>
<td>Writing Seminar II</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Operations and Supply Management (OPS)

A minor in Operations & Supply Management consists of 12 hours for students in the School of Business Administration and 21 for non-business students.

Operations and Supply Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>DSC 375</td>
<td>Management Science</td>
<td>3</td>
</tr>
<tr>
<td>OPS 300</td>
<td>Intro-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>or OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>OPS 350</td>
<td>Bus Process Mgt</td>
<td>3</td>
</tr>
<tr>
<td>OPS 401</td>
<td>Oper Plan &amp; Contrl</td>
<td>3</td>
</tr>
<tr>
<td>or OPS 480</td>
<td>Supply Chain Mgt Strt</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 21

1 Approved by the department chairperson.

Decision Sciences

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 and supply management (see OPS), and minors in business analytics, business intelligence and cyber-security.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
</tbody>
</table>

The minor in business analytics (BAN) offers business majors and other students an opportunity to develop their skills in the quantitative methods which support managerial decision making. A minor in business analytics consists of 21 semester hours for non-business majors and 12 hours for business majors.

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: Amsden, Casey, Hoffer, Vlahos
Sherman-Standard Register Professor of MIS: Ferratt
Niehaus Chair in Operations Management: Kanet
Professors: Dunne, Ferratt, Kanet, Wells
Associate Professors: Enns, Gorman, Prasad, Salisbury
Assistant Professors: Harrod, Jacobs, Wynn
Lecturers: Davis, Hall, Wagner

Business Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207</td>
<td>Intro-Financial Acc</td>
<td>3</td>
</tr>
<tr>
<td>ACC 208</td>
<td>Intro-Managerial Acc</td>
<td>3</td>
</tr>
<tr>
<td>BAI 150</td>
<td>Bus Educ Planning</td>
<td>1</td>
</tr>
<tr>
<td>BAI 103L</td>
<td>Bus Computing Lab</td>
<td>1</td>
</tr>
<tr>
<td>BAI 151</td>
<td>Bus Integratin Exp</td>
<td>1</td>
</tr>
<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>Prin of Microecon</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>Prin of Macroeco</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>Intro to Financial Mgt</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Legal Envrnmt-Bus</td>
<td>3</td>
</tr>
<tr>
<td>MGT 301</td>
<td>Organiztnl Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 490</td>
<td>Managing the Entrpse</td>
<td>3</td>
</tr>
<tr>
<td>MIS 301</td>
<td>Info Sys in Org</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>Prin of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>ECO elective (300/400 level)</td>
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</tbody>
</table>

Total Hours: 45

Major Requirements

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPS 350</td>
<td>Bus Process Mgt</td>
<td>3</td>
</tr>
<tr>
<td>DSC 375</td>
<td>Management Science</td>
<td>3</td>
</tr>
<tr>
<td>OPS 401</td>
<td>Oper Plan &amp; Contrl</td>
<td>3</td>
</tr>
<tr>
<td>OPS 480</td>
<td>Supply Chain Mgt Strt</td>
<td>3</td>
</tr>
<tr>
<td>OPS 485</td>
<td>Capstone Oprtn Pjct I</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours: 24
Minor in Business Analytics (BAN)

A minor in Business Analytics (BAN) consists of 12 hours for students in the School of Business Administration and 21 for non-business students.

Business Analytics (business majors)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 375</td>
<td>Management Science</td>
<td>3</td>
</tr>
<tr>
<td>OPS 350</td>
<td>Bus Process Mgt</td>
<td>3</td>
</tr>
<tr>
<td>Select six semester hours from DSC, MIS, or OPS (300/400 level)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

1 In addition to courses used to satisfy the requirements of any other major or minor. Approval of the department chairperson.

2 OPS majors must select nine additional semester hours instead of six.

Business Analytics (non-business majors)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>Stats For Bus I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>Stats For Bus II</td>
<td>3</td>
</tr>
<tr>
<td>DSC 375</td>
<td>Management Science</td>
<td>3</td>
</tr>
<tr>
<td>MIS 300</td>
<td>Survey of Mgt Info Sys</td>
<td>3</td>
</tr>
<tr>
<td>or MIS 301</td>
<td>Info Sys in Org</td>
<td>3</td>
</tr>
<tr>
<td>OPS 300</td>
<td>Intro-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>or OPS 301</td>
<td>Survy-Oper&amp;Supply Mgt</td>
<td>3</td>
</tr>
<tr>
<td>OPS 350</td>
<td>Bus Process Mgt</td>
<td>3</td>
</tr>
<tr>
<td>Select three semester hours from DSC, OPS or MIS (300/400 level)</td>
<td>3</td>
<td></td>
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</tbody>
</table>

Total Hours 21

Decision Sciences Courses

DSC 210. Stats For Bus I. 3 Hours
STATISTICS FOR BUSINESS I - Basic concepts of statistics including descriptive statistics, probability, probability distributions, and estimation. Prerequisite(s): MTH 128, MTH 129; BAI 103L (may be taken as a corequisite).

DSC 211. Stats For Bus II. 3 Hours
STATISTICS FOR BUSINESS II - Tests of hypotheses, analysis of variance, Chi-square tests, simple and multiple regression and correlation. Use of computer software for statistical data analysis. Prerequisite(s): BAI 103L; DSC 210; MTH 129.

DSC 313. Adv Business Stats. 3 Hours
ADVANCED BUSINESS STATISTICS - Selected topics from advanced statistics with emphasis on business applications. Prerequisite(s): DSC 211 or equivalent.

DSC 375. Management Science. 3 Hours
MANAGEMENT SCIENCE - Quantitative modeling applications for managerial analysis and decision making. Develops skills to analyze and solve problems using computer-based mathematical modeling in a wide variety of business decision situations involving business functional areas such as accounting, economics, finance, human resources, marketing, management information systems, and operations management. Topics include constrained modeling techniques, simulation, and multi-criteria decision making. Prerequisite(s): DSC 211; OPS 301 (may be taken as a corequisite).

DSC 410. Decision Theory. 3 Hours
DECISION THEORY - Introduction to the analysis of decisions under uncertainty. Topics include structuring of the decision process, Bayesian decision theory, and multicriteria decision making. Prerequisite(s): DSC 211 or equivalent.

DSC 415. Simulation Modelling And Analysis. 3 Hours
SIMULATION MODELING AND ANALYSIS - 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. Prerequisite(s): DSC 211; DSC 375 recommended.

DSC 435. Analysis-Factory Systems. 3 Hours
ANALYSIS OF FACTORY SYSTEMS - 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 Prerequisite(s): DSC 375, OPS 301.

DSC 491. Honors Thesis. 3 Hours
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.

DSC 492. Honors Thesis. 3 Hours
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.

DSC 494. Seminar In Dsc. 3 Hours
SEMINAR IN DECISION SCIENCES - 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.

DSC 497. Lab Work Experience. 1-6 Hours
LABORATORY WORK EXPERIENCE - 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 elective. Permission of chairperson required. Prerequisite(s): Permission of department chairperson.

DSC 498. Coop Education Prog. 3 Hours
COOPERATIVE EDUCATION - Optional full-time work period off campus alternating with study period on campus. Prerequisite(s): Permission of department chairperson.

DSC 499. Indep Study In Dsc. 1-6 Hours
INDEPENDENT STUDY IN DECISION SCIENCES - 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.
Management Info Systems Courses

MIS 220. Exp Careers/Info Sys. 1 Hour
EXPLORING CAREERS IN INFORMATION SYSTEMS - Designed to immerse students into the contemporary issues of management information systems. Site visits and guest lectures from management information systems leaders. Priority given to first and second year students. Satisfactory/No Credit. Prerequisite(s): Permission of department chairperson.

MIS 300. Survey of Mgt Info Sys. 3 Hours
SURVEY OF MANAGEMENT INFORMATION SYSTEMS - Introduction to information management systems 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 MIS 301. Permission of department chairperson required. Prerequisite(s): (BAI 103L or HSS 226); junior standing.

MIS 301. Info Sys in Org. 3 Hours
INFORMATION SYSTEMS IN ORGANIZATIONS - 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. Sophomores are encouraged to take this course during their second term. Prerequisite(s): ACC 207; ACC 208 or ACC 301, (may be taken as a corequisite); (BAI 103L or HSS 226); ECO 203.

MIS 305. Pbl Slvng wth Vis Tls. 1 Hour
INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS - Introduction to basic programming structures, graphical user interface design, and other tools using a visual programming language such as Visual Basic.net. Prerequisite(s): BAI 103L or equivalent.

MIS 325. Programming-Bus Sys. 4 Hours
PROGRAMMING FOR BUSINESS SYSTEMS - Process of software development for business system implementation. Fundamental object-oriented programming concepts include program design, documentation, development, and testing of computer solutions for business problems using a modern programming language, such as Java. Prerequisite(s): MIS 305.

MIS 360. E-Commerce ProcTech. 3 Hours

MIS 366. Business Intelligence. 3 Hours
BUSINESS INTELLIGENCE - The use of computer-based data analysis tools to support managers in problem solving and decision making. Prerequisite(s): DSC 211; MIS 301. Corequisite(s): MIS 385.

MIS 368. Prin of Infmtn Sec Mgt. 3 Hours
PRINCIPLES OF INFORMATION SECURITY MANAGEMENT - Addresses issues relevant to creating a systematic information assurance, compliance control structure and systematic security procedures. Information security policy, assets, physical and logical information resource security, business continuity, and compliance with relevant security standards are covered. Prerequisite(s): MIS 301.

MIS 380. Sys Anly & Re-engr. 3 Hours
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 300 or MIS 301; MIS 385 (may be taken as a corequisite); Business majors only or permission of department chairperson. Corequisite(s): MIS 381.

MIS 381. Prin of Project Mgt. 1 Hour
PRINCIPLES OF PROJECT MANAGEMENT - Introduction to project management concepts and ideas. Possible use of an existing team project from another course to learn principles of scheduling, team management, client management, etc., emphasizing best project management practices. Prerequisite(s): MIS 300 or MIS 301.

MIS 385. Sys Implmntn-DBMS. 3 Hours
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): MIS 300 or MIS 301; MIS 305 (may be taken as a corequisite).

MIS 410. Oriented Anal & Des. 3 Hours

MIS 420. Exp&Knowl-Based Sys. 3 Hours

MIS 425. Inform for Totl Qual. 3 Hours

MIS 430. Telecommntns&Netwrkg. 3 Hours
TELECOMMUNICATIONS AND NETWORKING-CLASSIFIED - 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. Offered on the ATIC Campus. Prerequisite(s): MIS 368 or permission of instructor; U.S. Department of Defense Interim Secret Clearance or higher.

MIS 460. Adv Web Development. 3 Hours
ADVANCED WEB DEVELOPMENT - Study of web development concepts and techniques. Design and development of dynamic web-sites using technologies such as ASP.NET. Prerequisite(s): MIS 300 or MIS 301; MIS 305 or equivalent.

MIS 461. E-Business. 3 Hours

MIS 465. Pjr I-Anly&Des-Teams. 3 Hours
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): MIS 325, MIS 380, MIS 381, MIS 385.
MIS 467. Data Warehousing. 3 Hours
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, MIS 385.

MIS 468. Internet Security. 3 Hours
INTERNET SECURITY-CLASSIFIED - This course provides students with an understanding of both defensive and offensive issues of information security. The course includes instruction on information security theory, psychological operations, hacking, viruses, and systems management. The course emphasizes security for e-commerce on the Internet. Offered on the ATIC Campus. Prerequisite(s): MIS 430; U.S. Department of Defense Interim Secret Clearance or higher.

MIS 475. Pj II-Dsn&Implm-Tms. 3 Hours
MIS PROJECT II-DESIGN AND IMPLEMENTATION IN TEAMS - 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 winter semester only. Prerequisite(s): MIS 465.

MIS 491. Honors Thesis. 3 Hours
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.

MIS 492. Honors Thesis. 3 Hours
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.

MIS 494. Seminar in MIS. 1-4 Hours
MIS 497. Lab Work Experience. 1-6 Hours
LABORATORY WORK EXPERIENCE - 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 department chairperson.

MIS 498. Coop Education Prog. 1-6 Hours
COOPERATIVE EDUCATION - 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 department chairperson.

MIS 499. Indep Study in MIS. 1-6 Hours
INDEPENDENT STUDY IN MANAGEMENT INFORMATION SYSTEMS - 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 department chairperson.

Operations Management Courses
OPS 220. Exper-Oper& Supply. 1 Hour
EXPERIENCES IN OPERATIONS AND SUPPLY MANAGEMENT - Designed to immerse students into the contemporary issues of operations and supply management. Site visits and guest lectures from operations management leaders. Priority given to first and second year students. Satisfactory/No Credit. Prerequisite(s): Permission of department chairperson.

OPS 300. Intro-Oper&Supply Mgt. 3 Hours
INTRODUCTION TO OPERATIONS AND SUPPLY MANAGEMENT - Concepts and OPS software-based techniques of designing, implementing, managing, and improving operations in manufacturing and service organizations, including project management, services systems design, resource allocation modeling, facility location, layout, aggregate planning, scheduling, and material requirements planning. Survey of major OPS strategies such as: just-in-time production, total quality management, business process reengineering, synchronous manufacturing, enterprise resource planning, and supply chain management. Not open to students in the School of Business Administration or to those with credit in OPS 301. Student must show aptitude in quantitative materials. Prerequisite(s): (BAI 103L or equivalent); (MTH 128, MTH 129 or equivalent); junior standing; permission of department chairperson; DSC 211 or equivalent recommended.

OPS 301. Srvy-Oper&Supply Mgt. 3 Hours
SURVEY OF OPERATIONS AND SUPPLY MANAGEMENT - Concepts and OPS software-based techniques of designing, implementing, managing, and improving operations in manufacturing and service organizations, including project management, services systems design, resource allocation modeling, facility location, layout, aggregate planning, scheduling, and material requirements planning. Survey of major OPS strategies such as: just-in-time production, total quality management, business process reengineering, synchronous manufacturing, enterprise resource planning, and supply chain management. Prerequisite(s): DSC 211 (may be taken as a corequisite).

OPS 350. Bus Process Mgt. 3 Hours
BUSINESS PROCESS MANAGEMENT - Analytical and empirical tools for evaluation of operations in manufacturing/service firms. Analytical methods may include flow diagrams, Little’s Law, queuing theory, theoretical flow times, critical path networks, resource capacity, and estimates of system flow. Empirical methods include quality sampling and discrete event simulation. Students receive training in Rockwell Arena simulation software. Projects or case studies require creative problem solving for realist business problems. Prerequisite(s): DSC 211; OPS 301 (may be taken as a corequisite); Business majors only or permission of department chairperson.

OPS 401. Oper Plan & Contrl. 3 Hours
OPERATIONS PLANNING AND CONTROL - Concepts and techniques in the planning and control of operations. Advanced treatment topics include: forecasting for operations, operations sequencing and scheduling, inventory and production control, production planning system design, MRP/ERP, warehouse management, purchasing and physical distribution, balanced attention to technical as well as the managerial aspects of operations planning and control. Prerequisite(s): DSC 211; DSC 375 (may be taken as a corequisite); OPS 301.
OPS 413. Project Management. 3 Hours
PROJECT MANAGEMENT - 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. Prerequisite(s): OPS 301.

OPS 430. Qual&jit in Manfctng. 3 Hours
QUALITY AND JUST IN TIME MANUFACTURING - The concepts of just-in-time manufacturing, total quality system, and statistical process control. Projects, tours, and guest speakers. Prerequisite(s): OPS 301.

OPS 440. Continuous Imprvmnt. 3 Hours
CONTINUOUS IMPROVEMENT - Theory and practice of continuous improvement especially as applied in manufacturing; comparison to the traditional operations management approach, tools and techniques, the KAIZEN approach. Prerequisite(s): OPS 301.

OPS 480. Supply Chain Mgt Strt. 3 Hours
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. Prerequisite(s): DSC 211; DSC 375 (may be taken as a corequisite); OPS 301; OPS 350 (may be taken as a corequisite).

OPS 485. Capstne Oprtn Pjct I. 1 Hour
CAPSTONE OPS PROJECT I - This course centers on the preparation for an experiential operations improvement project. Students evaluate real-world project proposals from clients, develop clear understanding of operations improvement opportunities, and select projects at hand. Student teams learn about process improvement project design and develop well-defined project plans for execution in OPS 495. Students taking OPS 485 in the fall must take OPS 495 in the subsequent winter semester. Prerequisite(s): Permission of instructor.

OPS 491. Honors Thesis. 3 Hours
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. 3 Hours
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. Sem-Oper&Supply Mgt. 3 Hours
SEMINAR IN OPERATIONS AND SUPPLY 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 OPS Prjct. 5 Hours
CAPSTONE OPS PROJECT II - This course centers on the execution of an 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. Prerequisite(s): OPS 401, OPS 480, OPS 485.

OPS 497. Lab Work Experience. 1-6 Hours
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. Coop Education Prog. 1-6 Hours
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. IS-Oper&Supply Mgt. 1-6 Hours
INDEPENDENT STUDY IN OPERATIONS AND SUPPLY 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.
School of Education and Allied Professions

Kevin R. Kelly, Dean
Kathryn Kinnucan-Welsch, Associate Dean for Undergraduate Learning and Community Partnerships

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 exercise science and fitness management, sport management, pre-physical therapy, and food and nutrition. Provisions for professional competence are made through:

1. Comprehensive study of the various fields
2. Study of the professional foundations common to all of the program areas
3. Specialized study of the principles underlying a particular area of study
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

Academic Programs

The SOEAP offers the following majors leading to the Bachelor of Science degree. Additional information specific to each department may be found under the Programs of Study tab.

Department of Health and Sport Science

BSE.EHA: Dietetics (p. 294)
BSE.EEP: Exercise Physiology (p. 295)
BSE.EES: Exercise Science (p. 295)
BSE.EHN: Nutrition and Fitness (p. 296)
BSE.EPT: Pre-Physical Therapy (p. 296)
BSE.ESM: Sport Management (p. 297)

Department of Teacher Education

BSE.EYA: Adolescence to Young Adult Education (p. 301)
BSE.ECE: Early Childhood Education (p. 302)
BSE.ECL: Early Childhood Leadership and Advocacy (p. 303)
BSE.ELA: Foreign Language Education (Multi-Age PK-12) (p. 303)
BSE.EIS: Intervention Specialist (Special Education) (p. 304)
BSE.EMS: Middle Childhood Education (p. 304)
BSE.ERL: Secondary Catholic Religious Education (p. 305)
BSE.EAR: Visual Arts Education (Multi-Age PK-12) (p. 306)

Students who major in the College of Arts and Sciences can also earn a teaching license (p. 113).

Degree Requirements

To be awarded the bachelor’s degree by the School of Education and Allied Professions, it is necessary to complete all requirements as stipulated by the catalog and department policy. The final 30 semester hours must be earned at the University of Dayton.

Following this general introductory section, this chapter includes specific four-year course requirements for the various programs in Teacher Education. The programs for licensure in early childhood, middle childhood, adolescent to young adult, intervention specialist, and multi-age (art, foreign language) 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.

1 Each program has particular methods courses along with other specialized education courses; see specific programs.

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Licensure for Students in Arts and Sciences

**B.A. or B.S. with Teacher Licensure**

Students in the College of Arts and Sciences may be able to complete the requirements for a teaching license without transferring to the School of Education and Allied Professions. For additional information regarding this option consult the Dean’s office in the College of Arts and Sciences.

Enrollment, continuation, and successful completion in this program are 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 and Allied Professions.

In order to complete all requirements in four years, a student in the College of Arts and Sciences should process an application for admission to the appropriate licensure program during the second semester of enrollment to begin the professional education sequence. Screening will be completed by the SOEAP transfer official. The requirements for the College of Arts and Sciences, the School of Education and Allied Professions, and licensure program concentration courses must be completed in order to be eligible for licensure recommendation. It is possible for students to earn dual degrees in the College of Arts and Sciences and School of Education and Allied Professions.

**Transfer Students**

The School of Education and Allied Professions welcomes transfer students into our programs. Students should contact either the SOEAP Student Services and Licensure Office or the Departments of Health and Sport Science and Teacher Education for additional information.

**Programs of Study**

To learn more about the available programs in the School of Education and Allied Professions, explore the departments in the menu on the right.

**Health and Sport Science**

**Majors:**

- Bachelor of Science, Dietetics
- Bachelor of Science, Exercise Physiology
- Bachelor of Science, Exercise Science
- Bachelor of Science, Nutrition and Fitness
- Bachelor of Science, Pre-Physical Therapy
- Bachelor of Science, Sport Management

The undergraduate mission of the Department of Health and Sport Science is to prepare students to be proficient and professional in the disciplines of dietetics and nutrition, exercise physiology, exercise science, pre-physical therapy, and sport management.

The Dietetics and Nutrition Programs prepare students for post-baccalaureate dietetic internships or pre-professional practice programs. Exercise Physiology students prepare to pursue research careers in exercise science, medicine, or health.
The Exercise Science Program is designed to prepare students for professional opportunities in corporate fitness, wellness and health maintenance programs in a variety of settings.

The Pre-Physical Therapy Program will prepare students for graduate school in physical therapy and other allied health professions.

The Sport Management Program prepares students for professional opportunities in:
- Division I and professional sports
- Sports organizations/federations
- Newspapers
- Television
- Sporting goods
- And the many areas of recreation

Along with minimum ACT/SAT scores, minimum cumulative GPAs are required for students wishing to transfer into the department.

**Faculty**

Lloyd L. Laubach, Chairperson
Professors Emeriti: Drees, Leonard, Roberts, Schleppi, Siciliano
Associate Professors: Daprano, DeMarco, Laubach, Linderman, Titlebaum
Lecturers: Dalton, Gallo, Ritterhoff

### Bachelor of Science with a major in 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 dietitians. Acceptance into the internship program is highly competitive and is based on the student’s grades, work experience, recommendation letters, and extra curricular 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 Academy of Nutrition and Dietetics. 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 initial accreditation by the Commission on Accreditation for Dietetics Education (CADE), Suite 2000, 120 South Riverside Plaza, Chicago, Illinois 60606, Phone: (900) 877-1600.

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**Total Hours**: 124-125
Bachelor of Science with a major in Exercise Physiology (EEP)

With its increased emphasis on the sciences, this is more appropriate for students interested in pursuing research careers in exercise science, medicine, or health (M.S., Ph.D. degrees).

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Bachelor of Science with a major in Exercise Science (EES)

Wellness is no longer a health trend or fad, it has become a lifestyle. Career opportunities available to graduates include:

- Exercise program directors in business, industry, hospitals, and communities
- Cardiac rehabilitators
- Health and fitness club managers

Specific functions include testing, research, evaluating, and prescribing exercise-related activities, and promoting wellness programs.

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**Total Hours**: 122-124

### Bachelor of Science with a major in Nutrition and Fitness (EHN)

This program offers classes from both the nutrition and exercise curriculum. Students who select the EHN major may take additional classes to qualify them to apply for a dietetic internship following graduation. Students may also fulfill medical or dental schools’ requirements with this program.

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### Bachelor of Science with a major in Pre-Physical Therapy (ept)

The Pre-Physical Therapy program is focused on preparing students for entrance to graduate programs in physical therapy. It is designed to optimize graduates’ chances of being accepted into some of the top physical therapy schools in the country. These graduate programs are highly selective, and both the undergraduate curriculum and the student’s
Employment opportunities for physical therapists are growing faster than any other segment of the healthcare industry. Because of the depth and breadth of the curriculum, a graduate will also have preparation for careers in fitness management and sports rehabilitation.

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**Bachelor of Science with a major in Sport Management (esm)**

The Sport Management program prepares students for opportunities in sport, event, and facility management. In particular, Sport Management professionals gain positions in collegiate and professional organizations, sport clubs, and athletic federations, as well as public and private recreation. Opportunities are also available in arenas and convention centers, event management, and all forms of media.

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Courses

**HSS 101. Intro-Univ Exper. 1 Hour**
INTRODUCTION TO THE UNIVERSITY EXPERIENCE - Examination of the values that foster academic progress in the College, discussion of strategies for taking full advantage of academic opportunities, and integrating formal and experiential learning.

**HSS 111. Intro-Sport Mangmnt. 3 Hours**
INTRODUCTION TO SPORT MANAGEMENT - Course to help the student define professional goals and assess personal strengths and weaknesses in the light of competencies deemed essential for a sport management career.

**HSS 112. Intro-Exer Sci&Ftnss. 2 Hours**
INTRODUCTION TO EXERCISE SCIENCE AND FITNESS MANAGEMENT - Course to help the student define professional goals and assess personal strengths and weaknesses in the light of competencies deemed essential for an exercise science and fitness management career.

**HSS 113. Intro-Dietcs/Nutrn. 2 Hours**
INTRODUCTION TO DIETETICS AND NUTRITION - To acquaint the students interested in a career in dietetics or nutrition with the professions, roles, responsibilities, and opportunities afforded them. Examples of practice for each area will be explored. Required by all entering first-year students and open to students interested in food and nutrition careers.

**HSS 114. Intro to Phys Thrpy. 1 Hour**
INTRODUCTION TO PHYSICAL THERAPY - An introductory seminar discussing the history, present and future, of physical therapy. A successful undergraduate preparation for entrance into this highly selective graduate program will be this field’s secondary focus.

**HSS 117. Persnl&Cmmnty Hlth. 3 Hours**
PERSONAL AND COMMUNITY HEALTH - Survey of health science and principles of preventive medicine as introduction to other courses in health and sport science.

**HSS 120. Fitness for Life. 2 Hours**
FITNESS FOR LIFE - This course will include a combination of classroom lectures covering numerous topics pertaining to health related fitness as well as laboratory activity sessions implementing concepts that foster a healthy, active lifestyle.

**HSS 130. Activities. 1 Hour**
PHYSICAL EDUCATION ACTIVITIES - Selected courses offered to all University students.

**HSS 182. Aerobic Conditioning. 2 Hours**
AEROBIC CONDITIONING - Aerobic conditioning techniques developed primarily through running programs. Required for EES and EDP majors.

**HSS 184. Conditioning. 1 Hour**
CONDITIONING - Course designed for Exercise Science and Pre-Physical Therapy majors to introduce them to concepts and techniques of aerobic conditioning using exercise devices such as treadmills, bicycle ergometers, stairmasters, rowing machines, etc.

**HSS 201. Introductory Foods. 2 Hours**
INTRODUCTORY FOODS - Study of scientific principles applied to the processing and preparation of food to maintain nutritional quality and aesthetic value. Corequisite(s): HSS 210L.

**HSS 210L. Intro Foods Lab. 2 Hours**
INTRODUCTORY FOODS LABORATORY - Course to accompany HSS 210 lecture. Corequisite(s): HSS 210.

**HSS 220. Adaptive Phys Actvty. 3 Hours**
ADAPTED PHYSICAL ACTIVITY - 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.

**HSS 226. Computer Apps in HSS. 3 Hours**
COMPUTER APPLICATIONS IN SPORT SCIENCE - 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.

**HSS 250. Prin of Sport Mngmnt. 3 Hours**
PRINCIPLES OF SPORT MANAGEMENT - Examination of the nature of management from theoretical and practical perspectives in a variety of sport settings. Focus on managerial functions and skills. Prerequisite(s): HSS 111.

**HSS 253. Sport Facility Ops. 3 Hours**
SPORT FACILITY OPERATIONS - The processes of planning, constructing, equipping, maintaining, and operating sport facilities are investigated in this course.

**HSS 255. Sports Mgt Practicm. 3 Hours**
SPORT MANAGEMENT PRACTICUM - 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.

**HSS 275. Hist-PE & Sport. 3 Hours**
HISTORY OF PHYSICAL EDUCATION AND SPORT - Study of the historical development of physical education and sport as it relates to significant events in the history of Western civilization.

**HSS 285. Sprts Mgt Field Expr. 3 Hours**
SPORT MANAGEMENT FIELD EXPERIENCE - This experience is done after completion of HSS 255. 150 clock hours need to be completed for the 3 semester hour experience.

**HSS 295. Nutrition & Health. 3 Hours**
NUTRITION AND HEALTH - Study of the nutrient needs of humans and of their choices as modified by socioeconomic, cultural, and life cycle factors.
HSS 302. Global&Cultural Nutr. 3 Hours
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. 2 Hours
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. Instl Qnt Food Buyng. 3 Hours
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, HSS 210L; a Multipurpose Computer Account (AKA Dial-in/PPP/Flyernet account); basic IBM compatible computer skills.

HSS 305. Human Anatomy. 3 Hours
HUMAN ANATOMY - Study of the human body with emphasis on the interdependent relationships of structure and function.

HSS 305L. Human Anatomy Lab. 1 Hour
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 307. Human Physiology. 3 Hours
HUMAN PHYSIOLOGY - 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. Corequisite(s): HSS 307L.

HSS 307L. Human Physiology Lab. 1 Hour
HUMAN PHYSIOLOGY LABORATORY - Virtual human physiological laboratory course meant to enhance the materials covered in HSS 307 - Human Physiology. Laboratory simulations in human physiology to cover concepts such as, but not limited to, cell transport mechanisms and permeability, skeletal muscle physiology, endocrine system physiology, cardiovascular dynamics, cardiovascular physiology, respiratory system mechanics, renal system physiology, and blood analysis. Prerequisite(s): BIO 151, BIO 152; (CHM 123, CHM 124) or equivalent; HSS 305. Corequisite(s): HSS 307.

HSS 320. Essen/Strength Cond. 3 Hours
ESSENTIALS OF STRENGTH CONDITIONING - 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 321. Essen/Personal Train. 3 Hours
ESSENTIAL/PERSONAL TRAINING - Essential/Personal Training.

HSS 325. Women in Sport. 3 Hours
WOMEN IN SPORT - This course studies concepts about women, sport, and society from both a contemporary and historical perspective in an effort to understand the role of women in sport. Additionally, this course will help students understand the evolution and future of women in sport in both the U.S. and internationally.

HSS 330. Leadership in Sport. 3 Hours
LEADERSHIP IN SPORT - As our society and industries adapt and reinvent themselves, especially in the sport (service) industry, there is a need for individuals within organizations to step up to the role of a leader, independent of their formal position. Therefore, the purpose of this course is for students to start (or continue) to develop their self-awareness, understanding, knowledge and practice of leadership.

HSS 335. Intro-Athletic Trng. 3 Hours
INTRODUCTION TO ATHLETIC TRAINING - Application of principles and methods involved in prevention, care, and treatment of athletic injuries. Prerequisite(s): HSS 305.

HSS 345. Med Eval & Terminlgy. 3 Hours
MEDICAL EVALUATION AND TERMINOLOGY - Medical terminology related to physiological processes.

HSS 349. Financng Sprt Opernts. 3 Hours
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 350. Business of Soccer. 3 Hours
BUSINESS OF SOCCER - Business of Soccer.

HSS 353. Sports Media. 3 Hours
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. Sprt-Global Community. 3 Hours
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.

HSS 356. HR Managemnt in Sprt. 3 Hours
HUMAN RESOURCES MANAGEMENT IN SPORT - This course is an overview of leadership and human resource management. The course examines the techniques, policies, processes, strategies, and practices used by health-related and sport companies and managers to effectively and efficiently utilize human resources. Prerequisite(s): HSS 255.

HSS 357. Sports Marketing. 3 Hours
SPORTS MARKETING - Course content is designed to give students an understanding of marketing principles applied to sport, sport events, and sport products. Marketing strategies including the sales, promotions, and advertising of sport will be emphasized.
HSS 358. Sales & Fundraising Sport. 3 Hours
SALES AND FUNDRAISING IN SPORT - Examination and understanding of sales and fundraising techniques. Students will gain first-hand experience in developing new skills for the job market.

HSS 401. Nutritional Biochem I. 3 Hours
NUTRITIONAL BIOCHEMISTRY I - Extension of the student's knowledge of the science of nutrition, stressing the metabolism of food constituents and recent advances in the field of nutrition. Prerequisite(s): (BIO 403 or HSS 307); CHM 314; HSS 295.

HSS 402. Nutrition Aging Adult. 2 Hours
NUTRITION FOR THE AGING ADULT - The study of the process of aging through adulthood. This will focus on the changes in nutritional needs during the aging process. Attention will be paid to the community resources available to help provide optimum nutrition to healthy people as they age.

HSS 404. Coaching Internship. 1-3 Hours
COACHING INTERNSHIP - Practical coaching experience working in local schools with interscholastic teams. Elective.

HSS 405. Tests & Measurements-Sp Sc. 3 Hours
TESTS AND MEASUREMENTS IN SPORT SCIENCE - Direct relationship of tests and measurements to the field of sport science.

HSS 406. Nutrition for Mother/Child. 2 Hours
NUTRITION FOR MOTHER AND CHILD - Physiologic and biochemical principles and results of current research are used to build a foundation for exploration of nutrition from the stages of growth and development, to maturation, and aging. These serve as the basis for consideration of the social, economic, physiologic, and lifestyle factors that influence nutrition status, food choices, and specific life state concerns. Particular attention is paid to using the principles of nutrition in planning and implementing recommendations for dietary change. Prerequisite(s): HSS 295, HSS 307.

HSS 408. Physiology-Exercise. 3 Hours
PHYSIOLOGY OF EXERCISE - Detailed study of the effects of exercise on human functions, as a basis for the study of physical fitness, motor skills, and athletic training. Prerequisite(s): HSS 305; (HSS 306 or HSS 307).

HSS 408L. Physiology Ex Lab. 1 Hour
PHYSIOLOGY OF EXERCISE LABORATORY - Course to accompany HSS 408. Weekly two-hour laboratory stressing practical applications of exercise physiology. Prerequisite(s): HSS 305; (HSS 306 or HSS 307).

HSS 409. Kinesiology. 3 Hours
KINESIOLOGY - Investigation and analysis of human motion based on anatomical, physiological, and mechanical principles. Prerequisite(s): HSS 305; (HSS 306 or HSS 307).

HSS 409L. Kinesiology Lab. 1 Hour
KINESIOLOGY LABORATORY - Course to accompany HSS 409. Weekly two-hour laboratory stressing the practical application of kinesiology.

HSS 422. Exer-Spec Populatns. 3 Hours
EXERCISE FOR SPECIAL POPULATIONS - 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. Rsch in Phys Act & Hlth. 3 Hours
RESEARCH IN PHYSICAL ACTIVITY AND HEALTH - 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 439. Prof Sem in Dietetics. 2 Hours
PROFESSIONAL SEMINAR IN DIETETICS - This guided practicum and seminar will provide an opportunity for candidates to develop and apply their knowledge of typical and atypical development from conception to age 3 as they observe young children in an infant/toddler classroom setting. Theories and research based practices related to infant and toddler care and education will be discussed. Candidates will conduct naturalistic assessment, identify developmental milestones and related risk factors, and will plan and execute play-based strategies to support development. 45 contact hours of field experience is required.

HSS 448. Safety & PE Sports. 3 Hours
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. Sel Studies-Exer Sci. 1-3 Hours
SELECTED STUDIES IN EXERCISE SCIENCE - Investigating, analyzing, and reporting on a problem in physical education. Prerequisite(s): Permission of department chairperson.

HSS 456. Nutritional Biochem II. 3 Hours
NUTRITIONAL BIOCHEMISTRY II - Integration and application of principles of physiology, nutrition and biochemistry to the processes of metabolic function.

HSS 465. Phys Therapy Seminar. 3 Hours
PHYSICAL THERAPY SEMINAR - Addresses current issues facing prospective and present physical therapists in a reforming healthcare industry.

HSS 485. Sport Mgt Internship. 3 Hours
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. Exer Sci Internship. 2 Hours
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. Exer Sci Internship. 1-3 Hours
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. Med Nutrition Thrapy. 4 Hours
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 dietician. Prerequisite(s): (BIO 403 or HSS 307); CHM 314; HSS 401.

HSS 498. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research thesis under the guidance of a faculty research director. Restricted to students in the Berry Scholars Program with permission of the program director.

HSS 499. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research thesis under the guidance of a faculty research director. Restricted to students in the Berry Scholars Program with permission of the program director.

Teacher Education

Majors:
- Bachelor of Science in Education, Adolescence to Young Adult
- Bachelor of Science in Education, Early Childhood Education
- Bachelor of Science in Education, Early Childhood Leadership and Advocacy
- Bachelor of Science in Education, Foreign Language Education
- Bachelor of Science in Education, Intervention Specialist
- Bachelor of Science in Education, Middle Childhood Education
- Bachelor of Science in Education, Secondary Catholic Religion Education
- Bachelor of Science in Education, Visual Arts Education

Endorsements:
- Early Childhood Generalist
- Pre-Kindergarten Special Needs
- Middle Childhood Generalist

Certificates:
- Early Intervention
- Early Childhood Leadership and Advocacy

The University of Dayton’s Department of Teacher Education has adopted a theme that is integrated throughout the 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 appropriate because of the complex needs of students from diverse backgrounds. The department adopted this theme in accordance with the University’s Marianist mission which encourages students to take an active role in improving the larger community, and also reflects the unit outcomes for the SOEAP which include:

- Embracing diversity
- Building community
- Engaging in critical reflection
- Developing as scholarly practitioner

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 examination(s) mandated by Ohio’s Department of Education, verify they are of “good moral character,” and have a valid, acceptable background check (fingerprint checks - Ohio and national - on file with the Ohio Department of Education).

Teacher Education Undergraduate Academic policies

1. Candidates for undergraduate licensure are placed in schools in the Miami Valley area for all clinical experiences. Student teaching is the capstone clinical experience for the preparation programs. 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.

2. An education course taken as an independent study cannot be applied toward teacher licensure.

3. Independent study is not available for regularly scheduled undergraduate courses.

4. Candidates must meet each of the following benchmarks:
   - Cumulative grade point average must be # 2.5
   - Grade point average in each teaching concentration must be # 2.5 prior to entry into the clinical experience (methods)
   - Grade point average in professional education courses must be # 2.5 after completing EDT 110 and the program specific development course, and maintained at # 2.5 thereafter
   - PRAXIS I: Must pass/be exempt all sections
   - Grade of C- or higher in all EDT courses
   - Grade of S in all EDT labs prior to entry into clinical experience
   - Unexcused absences in a Teacher Education course cannot exceed 13% in any given course

Faculty
Connie L. Bowman, Chairperson
Professors Emeriti: Anderson, Frye, Fuchs, Geiger, Joseph, Sudzina
Professors: Hart, Kinnucan-Welsch, Lasley, Rowley, Talbert-Johnson, Watras
Associate Professors: Adams, Baldwin, Biddle, Bowman, Collopy, Herrelko, Hunn, Kelly, Richards, Tillman
Assistant Professors: Bogard, Coovert, White
Lecturer: Mullins
Clinical Faculty: Arnold, Engelhardt, Gallagher, Mathes, Nonenone, Sableski, Scheuermann

Bachelor of Science in Education with a major in Adolescence to Young Adult Education (EYA)
The Department of Teacher Education offers the program in adolescence to young adult, which leads to the Bachelor of Science in Education and a 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. 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. PRAXIS I is required, or waived based on SAT/ACT scores, by the
end of the first year. Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average are required for the teaching field in which provisional licensure is sought. A student must maintain a 2.5 grade point average in their professional education courses, in their content area, and overall, in order to continue in the program, to student teach, and to be recommended for licensure. Eighty percent of concentration content coursework must be completed before entering senior year methods/student teaching experience. Students must verify “good moral character,” be fingerprinted, and pass the required Praxis II exams in Professional Knowledge and the content area to be recommended for the State of Ohio resident educator license.

Adolescence to young adult education teaching fields include the following:

- Integrated Language Arts
- Integrated Mathematics
- Integrated Science
- Integrated Social Studies
- Earth Sciences/Chemistry
- Earth Sciences/Physics
- Earth Sciences
- Life Sciences/Chemistry
- Life Sciences/Earth
- Life Sciences/Physics
- Life Sciences
- Physical Sciences/Chemistry
- Physical Sciences/Physics
- Physical Sciences/Physics & Chemistry
- Leading to Ohio Adolescence to Young Adult License: grades 7-12.

Bachelor of Science in Education with a major in Early Childhood Education (ece)

The Department of Teacher Education offers the program in early childhood education, which leads to the Bachelor of Science in Education and a license 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 which must bring the total number of credit hours to 124 which is required for graduation. 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 recommended for licensure. PRAXIS I is required or waived (with eligible SAT or ACT scores) by the end of the first year. Students must verify “good moral character,” be fingerprinted, and pass the required Praxis II exams to be recommended for the State of Ohio resident educator license.

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A student in the Early Childhood Leadership and Advocacy program is required to complete 30 semester credit hours of professional education coursework, plus an additional 15 semester credit hours of UD workshop credit for specialty training, to achieve 121 semester credit hours.

**Bachelor of Science in Education with a major in Foreign Language Education (ELA)**

The Department of Teacher Education offers a Bachelor of Science in Education degree, which leads to licensure to teach learners kindergarten through grade twelve. Three teaching concentrations are available: French, German, and Spanish.

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. Students should take electives as needed to achieve 124 semester credit hours. Students must verify “good moral character,” be fingerprinted, and pass the required Praxis II exams to be recommended for the State of Ohio resident educator license.

**Bachelor of Science in Education with a major in Early Childhood Leadership and Advocacy (ECL)**

The Department of Teacher Education offers a Bachelor of Science in Education degree in Early Childhood Leadership and Advocacy. Students will be admitted after earning an Associate’s Degree or equivalent in ECE or related field, and have met the following general education requirements for a total of at least 76 semester hours including nine or more semester hours from one or more four year institutions.

### Bachelor of Science in Education with a major in Early Childhood Leadership and Advocacy (ECL) Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDT 341</td>
<td>Lng Dvip&amp;Emergnt Lit</td>
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<tr>
<td>EDT 350</td>
<td>Find Literacy Thr Lit</td>
<td>3</td>
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<tr>
<td>EDT 412</td>
<td>Dev App Prc Mth-ECE</td>
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<td>EDT 415</td>
<td>Wk w/Lmrn Mid/Mod Ed &amp; 415L</td>
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<tr>
<td>EDT 450</td>
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<td>EDT 453</td>
<td>Intro-Ltncy-Er Child</td>
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<td>EDT 454</td>
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<td>EDT 472</td>
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<td>REL 103</td>
<td>Intro to Religion</td>
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<td>SCI 190</td>
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<td>SCI 230</td>
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<td>&amp; 230L</td>
<td>and Org,Evl,Envrnm Lab</td>
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<td>SWK 325</td>
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<td>VAE 101</td>
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<td>Focus area electives (2-3 courses)</td>
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1. Field experiences arranged at the Bombeck Family Learning Center.
2. Designates cohort courses to be taken together in the same semester.
3. Field experiences are arranged by the University. Must register for lab.
4. Course should only be taken by students pursuing PKSN focus area.
5. Students pursuing PKSN focus area should take course for ten semester hours, all other students should take course for twelve semester hours.

**Bachelor of Science in Education with a major in Foreign Language Education (ELA)**

The Department of Teacher Education offers a Bachelor of Science in Education, which leads to licensure to teach learners kindergarten through grade twelve. Three teaching concentrations are available: French, German, and Spanish.

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
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<td>CMM 113</td>
<td>Interviewing</td>
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<td>EDT 109</td>
<td>Persln Aspcts-Tchnng</td>
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<td>&amp; 338L</td>
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<tr>
<td>EDT 340</td>
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<td>ENG 200</td>
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Bachelor of Science in Education with a major in Intervention Specialist (eis)

The Department of Teacher Education offers a Bachelor of Science in Education, with a major in 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. Students should take electives as needed to achieve 124 semester credit hours. Students must verify "good moral character," be fingerprinted, and pass the required Praxis II exams to be recommended for the State of Ohio resident educator license.

Field experiences are arranged by the University. Must register for lab.

Lecture and lab must be taken concurrently. EDT 443 & 444 must be taken concurrently. Field experience is required.

Designates cohort courses to be taken together in the same semester.

Students should take a lab with either SCI 190, or SCI 230.

Bachelor of Science in Education with a major in Middle Childhood Education (ems)

The Department of Teacher Education offers the program in middle childhood education, which leads to the Bachelor of Science in Education and a 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
- Science
- Social Studies
- 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 licensure. PRAXIS I, is required or waived, by the end of the first year. Eighty percent of content coursework in both concentrations must be completed before entering senior year methods/student teaching experience. Students should take electives as needed to achieve 124 semester credit hours. Students must verify "good moral character," be fingerprinted, and pass the required Praxis II exams to be recommended for the State of Ohio resident educator license.

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<tr>
<th>Course Code</th>
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<td>CMM 111</td>
<td>Inform Public Sp</td>
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<td>or CMM 112</td>
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<td>CMM 113</td>
<td>Interviewing</td>
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<td>EDT 109</td>
<td>Persnl Aspects-Tchng</td>
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<td>&amp; 110L</td>
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<td>Devlpmnt-MC &amp; AYA</td>
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<td>and Devlpnt MC &amp; AYA lab 1</td>
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<td>EDT 305</td>
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<tr>
<td>EDT 321</td>
<td>Cirm Env Mid Chldhd</td>
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<td>EDT 350</td>
<td>Find Literacy Thr Lit</td>
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<tr>
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<td>Md Schl Prin&amp;Prac</td>
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<td>&amp; 425L</td>
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<td>EDT 458</td>
<td>Reading Methods MCE</td>
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<tr>
<td>&amp; 458L</td>
<td>and MCE MIFld Intnshp 1,2</td>
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<td>Std Tch Mid Chldhd</td>
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<td>GEO 204</td>
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<td>HST 103</td>
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<td>3</td>
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<tr>
<td>MTH 114</td>
<td>Contemporary Math</td>
<td>3</td>
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<tr>
<td>or MTH 207</td>
<td>Intro to Statistics</td>
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<tr>
<td>MUS 232</td>
<td>Integrating the Arts</td>
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<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
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<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
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<tr>
<td>SCI 190</td>
<td>The Physical Universe</td>
<td>4</td>
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<td>and Physical Unvrse Lab</td>
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<tr>
<td>EDT 427</td>
<td>Math-Middle Chldhd</td>
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<td>EDT 428</td>
<td>Sci-Middle Chldhd</td>
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<tr>
<td>EDT 429</td>
<td>Soc Std-Middle Chld</td>
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Concentration (12 courses)  3
Elective  3
General Education HST requirement  3
PHL/REL elective  3
Social Science elective  3
Total Hours  133

1 Field experiences are arranged by the University. Must register for Lab.
2 Designates cohort courses to be taken together in the same semester.
3 Fewer concentration hours may be required depending upon chosen concentrations.

Bachelor of Science in Education with a major in Secondary Catholic Religious Education (ERL)

The Department of Teacher Education offers the Bachelor of Science in Education program in secondary religious education, which leads to the Archdiocese of Cincinnati Certificate to teach religion grades 7 - 12.

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 the certificate. PRAXIS I, is required or waived, by the end of the first year. Students should take electives as needed to achieve 124 semester credit hours.

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<td>Profession-Teaching</td>
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<td>EDT 459</td>
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<td>EDT 475</td>
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<tr>
<td>PSY 451</td>
<td>PSY of Religion 2</td>
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Bachelor of Science in Education with a major in Visual Arts Education (EAR)

The Department of Teacher Education offers a Bachelor of Science in Education, which leads to licensure to teach learners kindergarten through grade twelve. Four teaching concentrations are available: Art History, Studio Art, Photography, and Visual Communication.

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. Students should take electives as needed to achieve 124 semester credit hours. Students must verify “good moral character,” be fingerprinted, and pass the required Praxis II exams to be recommended for the State of Ohio resident educator license.

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<td>VAF 104</td>
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<td>Design and Color</td>
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<td>VAF 226</td>
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<td>or VAF 483</td>
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Select two courses from:

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Arts Study elective 3
Elective 2
PHL/REL Elective 3
Science electives 6
Science lab electives 2
Social Science elective 3
VAH Elective 3
VAR Concentrations (5 courses) 15

Total Hours 131
Early Childhood Generalist Endorsement
The Department of Teacher Education offers the Early Childhood Generalist Endorsement. The endorsement will allow teachers in self-contained 4th and 5th grade classrooms to teach the concentration areas of math, science, and social studies. Students enrolled in an Early Childhood license program may complete the coursework for the Early Childhood Generalist Endorsement as a focus area for their undergraduate degree.

Early Childhood Generalist Endorsement
EDT 409 Math 4 & 5 Grades 3
EDT 410 Science 4 & 5 Grades 3
EDT 411 Soc Stud 4 & 5 Grades 3
Total Hours 9

Early Intervention Certificate
The Department of Teacher Education offers the Early Intervention Certificate. This certificate allows servicing infants and toddlers, ages birth through two, who have an identified developmental delay or who are at risk for developing such a delay. The young child is served within the context of its family. Students enrolled in an Early Childhood License program may complete the coursework for the Early Intervention Certificate as a focus area for their undergraduate degree.

Early Intervention Certificate
EDT 312 Infant/Toddler Pract 2
EDT 314 Coll Asmnt & Team Mds 3
EDT 315 Hlth&Med Early Cldhd 2
EDT 341 Lng Dvlp&Emergnt Lit 3
EDT 344 Coll w/Prnt/Coll/Agn 3
Total Hours 13

Pre-Kindergarten Special Needs Endorsement
The Department of Teacher Education offers the Pre-Kindergarten Special Needs Endorsement (formerly the Early Education of the Handicapped Validation (VAL.ECE.EEH)). This endorsement can be added to an existing pre-kindergarten certificate, a special education certificate, or an intervention specialist or early childhood license and allows teachers to teach children ages 3-5 who have mild or moderate to intensive needs. Students enrolled in an Early Childhood License program may complete the coursework for the Pre-Kindergarten Special Needs Endorsement as a focus area for their undergraduate degree.

Pre-Kindergarten Special Needs Endorsement
EDT 314 Coll Asmnt & Team Mds 3
EDT 315 Hlth&Med Early Cldhd 2
EDT 341 Lng Dvlp&Emergnt Lit 3
EDT 344 Coll w/Prnt/Coll/Agn 3
EDT 472 PKSE Internship 5
Total Hours 16

Early Childhood Leadership and Advocacy Certificate
The Department of Teacher Education offers the Early Childhood Leadership and Advocacy Certificate. This certificate provides knowledge and skills required of program administrators, supervisors, teacher leaders, and advocates for effective leadership and advocacy in a variety of early childhood settings. Students enrolled in an Early Childhood License program may complete the coursework for the Early Childhood Leadership and Advocacy Certificate as a focus area for their undergraduate degree.

Early Childhood Leadership and Advocacy Certificate
EDT 460E & 460EL ErlyChldPrgmPersnlMng and ErlyDhdPrgmPrsnlMngLb 3-4
EDT 461E & 461EL SptQltyClimnsElyCrEd and SptQltyClimnsElyCrEd 3-4
EDT 462E & 462EL RgnsLcsLwErlyCreEd and RgnsLcsLwErlyCreEdLb 3-4
EDT 463E MngFnscsMktErlyCareEd 3
EDT 464E AdvcyErlyCreEd 3
EDT 465E ItrnPrctmErlyChldAdm 6
Total Hours 21-24

Middle Childhood Generalist Endorsement
The Department of Teacher Education offers the Middle Childhood Generalist Endorsement. This endorsement can be added to any existing Middle Childhood License for any combination of the four areas of concentration. The generalist endorsement will allow teachers to teach grades 4-6 only. Candidates must pass the required PRAXIS II exam(s) to receive the endorsement or pass the PRAXIS II Curriculum, Instruction, and Assessment prior to licensure.

Middle Childhood Generalist Endorsement
Language and Reading
EDT 426 Rdg/Lng Arts-MC 3
EDT 608 The Writing Classrm 3
Mathematics
EDT 427 Math-Middle Childhd 3
MTH 266 Disc&Fin Mth in MS 3
Science
EDT 428 Sci-Middle Childhd 3
Select one sequence from:
SCI 190 The Physical Universe 4
& 190L and Physical Univrs Lab
SCI 210 The Dynamic Earth 4
& 210L and The Dynamic Erth Lab
SCI 230 Org,Evol,Envrnmnt 4
& 230L and Org,Evl,Envirn Lab
Social Studies
EDT 429 Soc Std-Middle Child 3
HST 251 Amer Hst to 1865 3
Total Hours 25
Courses

EDT 109. Persnl Aspects-Tchng. 1 Hour
PERSONAL ASPECTS OF TEACHING - 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. Profession-Teachng. 2 Hours
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 Ohio Standards for the Teaching Profession and 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. Prerequisite(s): EDT 109 or permission of dean’s undergraduate coordinator. Corequisite(s): EDT 110L.

EDT 110L. Prfssn Tchng Lab. 1 Hour
THE PROFESSION OF TEACHING LABORATORY - This lab consists of planned field experiences providing candidates the opportunity for field reflections in school settings. Corequisite(s): EDT 110.

EDT 207. Chld&Adol In Eductn. 3 Hours
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. Field experience required. Prerequisite(s): EDT 110. Corequisite(s): EDT 207L.

EDT 207L. Chld & Adlct Ed Lab. 1 Hour
CHILD AND ADOLESCENT IN EDUCATION LABORATORY - 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. Chld Dev Birth-8. 3 Hours
CHILD DEVELOPMENT: BIRTH TO AGE 8 - This course focuses on the study of typical physical, motor, social-emotional, and aesthetic development of young children ages preconception through eight. Assessment, risk factors, environmental design and guiding behavior are covered. 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 relies on field experience to be completed at the Bombeck Family Learning Center. Prerequisite(s): EDT 110. Corequisite(s): EDT 211L.

EDT 211L. Chld Dev Brth-8 Lab. 1 Hour
CHILD DEVELOPMENT: BIRTH TO AGE 8 LABORATORY - This 45 contact hour practicum course is one semester of a year long field experience held in conjunction with EDT 211 and EDT 212. 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, background check, and references are required. Forms are available at the Bombeck Family Learning Center website. Corequisite(s): EDT 211.

EDT 212. Erly Child Thry&Prac. 3 Hours
EARLY CHILDHOOD THEORY AND PRACTICE - This course is an introduction to the theory base that drives developmentally appropriate practice for working with young children birth through age eight. It extends knowledge of how children develop and focuses on theories of Piaget, Kohlberg, Skinner, Pavlov, Erikson, Rogers, and Vygotsky. Students will learn to write lesson plans using a Praxis based lesson plan format. Field experience required at the Bombeck Family Learning Center. Prerequisite(s): EDT 110. Corequisite(s): EDT 212L.

EDT 212L. Erly Cdh Thy&Pr Lb. 0 Hours
EARLY CHILDHOOD THEORY AND PRACTICE LABORATORY - This practicum course is a year long field experience held in conjunction with EDT 211 and EDT 212. 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, background check, and references are required. Forms are available at the Bombeck Family Learning Center website. Corequisite(s): EDT 212.

EDT 222. Devlpmnt-MC & AYA. 3 Hours
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 required. Prerequisite(s): EDT 110. Corequisite(s): EDT 222L.

EDT 222L. Devlpmnt MC & AYA lab. 1-2 Hours
DEVELOPMENT IN MC AND AYA LABORATORY - This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to young adolescent and young adult development in school settings. Corequisite(s): EDT 222.

EDT 303. Schl,Self&Society. 3 Hours
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.

EDT 305. Phil&Hist of Amer Ed. 3 Hours
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 306. Hist Cath K12 Sch US. 3 Hours
HISTORY OF CATHOLIC K-12 SCHOOLS IN THE UNITED STATES - This course examines the Catholic K-12 educational experience in the United States with a particular emphasis on the impact that Catholic schools have had on the creation of Catholic culture in America and on American culture in general. Particular emphasis is placed upon those historical antecedents that directly or indirectly affect Catholic schools today.
EDT 312. Infant/Toddler Pract. 2 Hours
INFANT AND TODDLER PRACTICUM SEMINAR - This guided practicum and seminar will provide an opportunity for candidates to develop and apply their knowledge of typical and atypical development from conception to age 3 as they observe young children in both structured and naturalistic settings. Developmental milestones as well as related risk factors will be emphasized.

EDT 313. Dvmt App Prac Prsc. 3 Hours
DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL - This course will expand the knowledge of how young children, ages three through five, learn and develop. How to provide opportunities that will support this age group’s physical, social, emotional, language, cognitive and aesthetic development will be explored. Extensive focus on the content areas of art, music, science, social studies and math as well as guiding behavior and family culture will occur. Field experience in an urban preschool or preschool special education setting required. Prerequisite(s): EDT 110, 212. Corequisite(s): EDT 313L, 340, 340L, 453.

EDT 313L. Dvmt App Prc Prsc Lb. 1 Hour
DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL LABORATORY - This field experience provides students with an opportunity to work with diverse populations. Placements are made in preschool programs that serve children from low income families, minority children who are at risk, or children with identified special needs. Corequisite(s): EDT 313.

EDT 314. Coll Asmnt & Team Mds. 3 Hours
COLLABORATIVE ASSESSMENT AND TEAM MODELS - This course provides an in depth study of transdisciplinary teaming and collaborative assessment models in the field of early childhood special education. Included will be the transdisciplinary and collaborative nature of assessment in the diagnosis, screening, and instruction of young children (birth to age eight) who are typically and atypically developing. Emphasis will be given to the role of the family in the assessment process. Systematic observation using a play-based approach will be emphasized. Prerequisite(s): EDT 110, EDT 212.

EDT 315. Hlth&Med Early Chdhd. 2 Hours
HEALTH AND MEDICAL ISSUES FOR EARLY CHILDHOOD - Study of the health and medical needs associated with young children with disabilities. Students engage in collaboration between educational and medical professionals in an effort to integrate services for young children. Prerequisite(s): EDT 110, EDT 212.

EDT 317. Intg Arts ECE Curric. 2 Hours
INTEGRATING THE ARTS IN EARLY CHILDHOOD CURRICULUM - This course will provide opportunities for early childhood majors to integrate the arts throughout the early childhood curriculum in meaningful ways. Music, dance, drama and visual arts will be used to represent what young children know and are able to do as well as provide an opportunity to recognize and appreciate cultural difference in artistic expression. Candidates will create aesthetically pleasing newsletters and websites to communicate with families and to market their program.

EDT 318. Urban Tchr Academy. 0-1 Hours
URBAN TEACHER ACADEMY-JUNIOR SEMINAR - This course is designed to deepen understanding of critical issues facing urban educators. Students will examine how the culture of poverty affects students, families, and schools. Instructional and management strategies that encourage the learning and development of efficacy, risk-taking, socio-cultural awareness, contextual interpersonal skills, and self-understanding are developed through integrated readings, discussions, field experience, and presentations. Inherent in this deepening of understanding is the development of reflective thinking and writing and problem solving strategies.

EDT 321. Clrm Env Mid Chdhd. 3 Hours
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 required. Prerequisite(s): EDT 110, EDT 222. Corequisite(s): EDT 321L.

EDT 321L. Clsrm Envmnt MC Lab. 1 Hour
CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LABORATORY - 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 331L. Religion Methods Lab. 0-1 Hours
RELIGION METHODS LAB - Religion methods laboratory.

EDT 338. Teaching & Learning. 3 Hours
TEACHING AND LEARNING - 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 required. Prerequisite(s): EDT 207 or EDT 222. Corequisite(s): EDT 338L.

EDT 338L. Teach & Learn. 1 Hour
TEACHING AND LEARNING LABORATORY - 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 338.

EDT 340. Ed Dvse St Pop -Incl. 3 Hours
EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS - 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 required. Prerequisite(s): EDT 110. Corequisite(s): EDT 340L.

EDT 340L. Ed Dvs st Pop Inc Lb. 0 Hours
EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LABORATORY - 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. Lng Dvlp&Emergent Ltr. 3 Hours
LANGUAGE DEVELOPMENT AND EMERGENT LITERACY - 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): EDT 110.

EDT 342. Behavior Management. 3 Hours
BEHAVIOR MANAGEMENT - 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 taken as a corequisite).

EDT 343. Lrn w/Mld-Mod Ed Nds. 3 Hours
INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS LABORATORY - 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 required. Prerequisite(s): EDT 340. Corequisite(s): EDT 343L.

EDT 343L. Ed Lrn Md/Mod Prb Lb. 0 Hours

EDT 344. Coll w/Prnt/Coll/Agn. 3 Hours
COLLABORATION WITH FAMILIES, PROFESSIONALS AND AGENCIES - 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): IS: EDT 343; ECE: EDT 340.

EDT 350. Find Literacy Thr Ltr. 3 Hours
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, various children’s and young adult literature, the integration of technology in literacy, an overview of the importance of on-going assessment in teaching reading/language arts, and an awareness of cultural, linguistic, and ethnic diversity in individual learners. Prerequisite(s): EDT 340.

EDT 400. Independent Study. 1-12 Hours
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 department chairperson.

EDT 404. Curr Innvtns in Ed. 3 Hours
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. Spec Top in Teaching. 1-3 Hours
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 409. Math 4&5 Grades. 3 Hours
MATHEMATICS FOR 4TH AND 5TH GRADES - Planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching mathematics to students in grades 4 and 5 with varied needs and abilities using a tier method. Topics include: Ohio Academic Content Standards, applications and instructional techniques that address proficiency testing, resources, technologies, manipulatives, interdisciplinary connections, grouping techniques, current research, and 21st Century Skills.

EDT 410. Science 4&5 Grades. 3 Hours
SCIENCE FOR 4TH AND 5TH GRADES - Planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching science to students in grades 4 and 5 with varied needs and abilities using a tier method. Topics include: Ohio Academic Content Standards, applications and instructional techniques that address proficiency testing, resources, technologies, manipulatives, interdisciplinary connections, grouping techniques, current research, and 21st Century Skills.

EDT 411. Soc Stud 4&5 Grades. 3 Hours
SOCIAL STUDIES FOR 4TH AND 5TH GRADES - Course designed to address social studies content including social aspects of learning, and pedagogy specific to 4th/5th grades.

EDT 412. Dev App Prc Mth-ECE. 3 Hours
DEVELOPMENTALLY APPROPRIATE PRACTICE IN MATH FOR ECE - This course will extend the candidate’s knowledge of how children, six through eight years, develop and learn in order to provide opportunities that support the physical, social, emotional, language, cognitive, and aesthetic development of all young children. 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 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, EDT 212, EDT 313; successful completion of field experience. Corequisite(s): EDT 413, EDT 414, EDT 415, EDT 415L, EDT 454.
### Course Descriptions

#### EDT 412. Dv App Prc SocSt-ECE. 2 Hours

**DEVELOPMENTALLY APPROPRIATE PRACTICE IN SOCIAL STUDIES FOR ECE** - 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 context of Social Studies and will focus on the Ohio Social Studies academic content standards 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): EDT 110, EDT 212, EDT 313; successful completion of field experience. Corequisite(s): EDT 412, EDT 414, EDT 415, EDT 415L, EDT 454.

#### EDT 414. Dev App Prac Sci-ECE. 3 Hours

**DEVELOPMENTALLY APPROPRIATE PRACTICE IN SCIENCE FOR ECE** - This course will explore resources and techniques available to provide all early childhood students with a holistic, interdisciplinary understanding of science. Candidates will design lessons, activities, and assessments which link the national standards, state model, and international goals to contemporary events and children's daily lives. Developmentally appropriate practices, science processes, inquiry, problem-solving, and safety issues will be addressed. Prerequisite(s): EDT 110, EDT 212, EDT 313; GEO 204; SCI 190, SCI 190L, SCI 230, SCI 230L; successful completion of field experience. Corequisite(s): EDT 412, EDT 413, EDT 415, EDT 415L, EDT 454.

#### EDT 415. Wk w/Lrnr Mld/Mod Ed. 3 Hours

**WORKING WITH YOUNG LEARNERS WITH MILD TO MODERATE DISABILITIES** - 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 required as part of the K-3 block. Prerequisite(s): EDT 212, EDT 340; successful completion of field experience. Corequisite(s): EDT 412, EDT 413, EDT 414, EDT 415L, EDT 454.

#### EDT 415L. ECE K-3 Fld Intronshp. 1-2 Hours

**ECE PRIMARY (K-3) FIELD INTERNSHIP** - 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. Corequisite(s): EDT 412, EDT 413, EDT 414, EDT 415, EDT 454.

#### EDT 418. Urban Tchr Academy. 0-1 Hours

**URBAN TEACHER ACADEMY-SENIOR SEMINAR** - This course is designed to deepen understanding of critical issues facing urban educators. Students will examine how the culture of poverty affects students, families, and schools. Instructional and management strategies that encourage the learning and development of efficacy, risk-taking, socio-cultural awareness, contextual interpersonal skills, and self-understanding are developed through integrated readings, discussions, field experience, and presentations. Inherent in this deepening of understanding is the development of reflective thinking and writing and problem solving strategies.

#### EDT 419. Kndgtn-Prmn Curr&Inst. 3 Hours

**KINDERGARTEN-PRIMARY CURRICULUM AND INSTRUCTION** - This course focuses on planning, assessment, instructional methods, materials, and evaluation techniques for teaching children in kindergarten and primary grades. Integrated curriculum and the Ohio Early Learning/ Academic Content Standards in math and science will be emphasized. Prerequisite(s): EDT 110, EDT 211, EDT 212. Corequisite(s): EDT 419L.

#### EDT 419L. Kdgtn-Prmn Cr&Inst Lb. 0 Hours

**KINDERGARTEN-PRIMARY CURRICULUM AND INSTRUCTION LABORATORY** - This 20 contact hour lab in a kindergarten or primary grades classroom supports the material covered in EDT 419. Corequisite(s): EDT 419.

#### EDT 423. MC Capstone Seminar. 2 Hours

**MC CAPSTONE SEMINAR** - Capstone seminar.

#### EDT 425. Md Schl Prin&Prac. 3 Hours

**THE MIDDLE SCHOOL PRINCIPLES AND PRACTICES** - This course is primarily a study of organization (school structure), philosophy and curriculum of middle level education (9-14 year olds), grades 4-9. It is designed to present the theoretical knowledge base about middle level (school) education. 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, EDT 321.

#### EDT 425L. Mid Child Prin&Prac Lb. 0 Hours

**MIDDLE CHILDHOOD PRINCIPLES AND PRACTICES LABORATORY** - This lab consists of planned field experiences providing candidates the opportunity for field reflections in regards to the study of organization (school structure), philosophy and curriculum of middle level education (9-14 year olds), grades 4-9. It is designed to support the course study of the theoretical knowledge base about middle level (school) education. Issues and concerns, current trends and the essential elements relating to middle level education will be observed and studied throughout the semester. Corequisite(s): EDT 425.

#### EDT 426. Rdg/Lng Arts-MC. 3 Hours

**READING/LANGUAGE ARTS FOR MIDDLE CHILDHOOD** - 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 achievement tests, various resources, technologies, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 321, EDT 425. Corequisite(s): EDT 458, EDT 458L; two content methods courses.

#### EDT 427. Math-Middle Childhd. 3 Hours

**MATH FOR MIDDLE CHILDHOOD** - 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 achievement tests, various resources, technologies, manipulatives, and other visuals, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 321, EDT 425. Corequisite(s): EDT 458, EDT 458L; two content methods courses.
EDT 428. Sci-Middle Chldhd. 3 Hours
SCIENCE FOR MIDDLE CHILDHOOD - 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 achievement tests, various resources, technologies, experiments, and other hands-on experiences, interdisciplinary connections, various grouping techniques, and current research. Prerequisite(s): EDT 222, EDT 222L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 458, EDT 458L: two content methods courses.

EDT 429. Soc Std-Middle Chld. 3 Hours
SOCIAL STUDIES FOR MIDDLE CHILDHOOD - 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 content standards for grades 4-9, applications and instructional techniques that address the Ohio achievement tests, various resources, technologies and active hands-on experiences, other visuals, interdisciplinary connections, various grouping techniques and current research. Prerequisite(s): EDT 305, EDT 425. Corequisite(s): EDT 458, EDT 458L: two content methods courses.

EDT 431. Lang Arts Mthds-AYA. 4 Hours
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 achievement and competency tests, various resources, technologies, interdisciplinary connections, various grouping techniques, best practices, and current research. Prerequisite(s): EDT 222, EDT 222L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 431, EDT 459.

EDT 431L. Int Lng Md AYA Fd In. 1-2 Hours
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 setting. Corequisite(s): EDT 305, EDT 431, EDT 459.

EDT 432. Mth Mthds-AYA. 4 Hours
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 achievement and competency tests, various resources, technologies, manipulatives, and other visuals, interdisciplinary connections, various grouping techniques, best practices, and current research. Prerequisite(s): EDT 222, EDT 222L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 432, EDT 459.

EDT 432L. Math Md AYA Fd Int. 1-2 Hours
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, EDT 432, EDT 459.

EDT 433. Foreign Lng-AYA. 4 Hours
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 achievement and competency tests, various resources, technologies, hands-on activities and other visuals, interdisciplinary connections, various grouping techniques, best practices, and current research. Field experience required. Prerequisite(s): EDT 207, EDT 207L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 433L, EDT 459.

EDT 433L. Frn Lng Mth Fld Intp. 1-2 Hours
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 setting. Corequisite(s): EDT 305, EDT 433, EDT 459.

EDT 434. Sciene Mthds-AYA. 4 Hours
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 achievement and competency tests, various resources, technologies, hands-on activities, interdisciplinary connections, various grouping techniques, best practices, and current research. Field experience required. Prerequisite(s): EDT 222, EDT 222L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 434L, EDT 459.

EDT 434L. Sci Mth AYA Fld Intr. 1-2 Hours
SCIENCE 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 science setting. Corequisite(s): EDT 305, EDT 459.

EDT 435. Soc Std Mthds-AYA. 4 Hours
INTEGRATED SOCIAL STUDIES 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 social studies 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 achievement tests, various resources, technologies, experiments, interdisciplinary connections, various grouping techniques, best practices, and current research. Field experience required. Prerequisite(s): EDT 222, EDT 222L, EDT 338, EDT 338L. Corequisite(s): EDT 305, EDT 435L, EDT 459.
EDT 435L. Int Sc St SYA Fd Inst. 1-2 Hours
INTEGRATED SOCIAL STUDIES 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 social studies, AYA setting. Corequisite(s): EDT 305, EDT 435, EDT 459.

EDT 436. AYA Capstone Course. 3 Hours
AYA CAPSTONE COURSE - This course will serve as a culminating course to the AYA Senior Block experience. It will provide content for topics that former students deemed important as well as educational research techniques. The course was designed by AYA faculty to meet the missing components that our work with NCATE spa requirements demands from our individual content areas. Specifically, the course will cover action research, educational research, content area research, data collection analysis and management, real classroom issues, and the integration of all these elements to measure and improve student achievement. Corequisite(s): EDT 475.

EDT 441. Cnt Stnd Stdt Sp Nds. 3 Hours
ADAPTING CONTENT STANDARDS FOR STUDENTS WITH SPECIAL NEEDS - This course focuses on the planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques used by intervention specialists in inclusive and more restrictive settings to address K-12 content area standards. The topics emphasized include an understanding of how to align Ohio’s academic content standards with applications and instructional techniques that ensure the achievement of special education students in the general education curriculum. The course examines the role of the intervention specialist in collaboration with general educators in making appropriate accommodations and modifications.

EDT 441L. Cnt Stnd Stdt Sp Nds Lab. 0 Hours
ADAPTING CONTENT STANDARDS FOR STUDENTS WITH SPECIAL NEEDS LABORATORY - This lab focuses on the planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques used by intervention specialists in inclusive and more restrictive settings to address K-12 content area standards. I.S. students will work with licensed educators to develop an understanding of how to align Ohio’s academic content standards with applications and instructional techniques that ensure the achievement of special education students in the general education curriculum. The lab emphasizes the role of the intervention specialist in collaboration with general educators in making appropriate accommodations and modifications.

EDT 442. Assmt:Mld/Moderate. 3 Hours
ASSESSMENT: MILD/MODERATE - This course is the study of the multidisciplinary use of assessment instruments and techniques in the diagnosis, planning and evaluation of the special needs learner and the development of individual education programs. Prerequisite(s): EDT 321, EDT 340, EDT 343, EDT 425. Corequisite(s): EDT 442L, EDT 443, EDT 444.

EDT 442L. IS Mld/Mod Fld Inpt. 1-2 Hours
INTERVENTION SPECIALIST: MILD/MODERATE FIELD INTERNSHIP - This Intervention Specialist: Mild/Moderate field experience is the first semester of the senior level internship, providing the candidate with practice and reflection in mild/moderate intervention specialist settings. Corequisite(s): EDT 442, EDT 443, EDT 444.

EDT 443. Curriculum M/M. 2 Hours
CURRICULUM: MILD/MODERATE - This course is the study of curriculum development considering the motor, cognitive, academic, social, language, affective, functional, life skills, and individual programming of students with mild/moderate disabilities. Field experience required. Prerequisite(s): EDT 321, EDT 340, EDT 343, EDT 425. Corequisite(s): EDT 344, EDT 442, EDT 442L, EDT 444.

EDT 444. Instr Strat:Mld/Mod. 3 Hours
INSTRUCTIONAL STRATEGIES: MILD/MODERATE - This course examines the strategies, materials, and evaluation techniques for teaching students with mild/moderate learning problems. Field experience required. Prerequisite(s): EDT 321, EDT 340, EDT 343, EDT 425. Corequisite(s): EDT 442, EDT 442L, EDT 443.

EDT 445. Appl-Cmptr&Technlg. 2 Hours
APPLICATION OF COMPUTERS/TECHNOLOGY IN SPECIAL EDUCATION - This course is the study of basic computer applications in special education, including instructional programs, software evaluation, telecommunications, multimedia and hypermedia, assistive technology, augmentative devices, resources, and legal/ethical issues. Prerequisite(s): EDT 341, EDT 343.

EDT 446. Career Ed/Special Ed. 2 Hours
CAREER EDUCATION / SPECIAL EDUCATION - Theory and techniques of job classification, assessment, selection, placement, and activities related to work from pre-school to adult. Prerequisite(s): EDT 343. Corequisite(s): EDT 442, EDT 442L, EDT 443, EDT 444.

EDT 447. Instructnl Strat:Mod. 2 Hours
INSTRUCTIONAL STRATEGIES: MODERATE - This course examines strategies for teaching and managing behaviors of students with moderate disabilities. Prerequisite(s): EDT 321, EDT 340, EDT 343, EDT 425 Corequisite(s): EDT 442, EDT 442L, EDT 443, EDT 444.

EDT 450. Phonics,Spell,Voc. 3 Hours
PHONICS, SPELLING, AND VOCABULARY - 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 350. Corequisite(s): EDT 453 or EDT 458.

EDT 452. Reading-Contnt Areas. 3 Hours
CRITICAL READING IN THE CONTENT AREAS - In this course, Middle Childhood 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.

EDT 453. Intro-Ltrcy-Er Chld. 3 Hours
INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD - Study of appropriate instruction and assessment supporting the literacy development of children PK - grade 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.
EDT 454. Mth Lit Instr Asmt EC. 3 Hours
METHODS OF LITERACY INSTRUCTION AND ASSESSMENT FOR EARLY CHILDHOOD - The continued study of appropriate instruction and assessment supporting the literacy development of children PK - grade 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, EDT 453.

EDT 458. Reading Methods MCE. 3 Hours
READING METHODS FOR MIDDLE CHILDHOOD - 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 ages, needs, and abilities. Topics include planning, instructional methods, materials, assessment, and evaluation techniques. Field experience required. Prerequisite(s): EDT 350. Corequisite(s): EDT 458L; two content methods courses.

EDT 458L. MCE Mi Fld Intnshp. 1-2 Hours
MCE MIDDLE LEVEL (4-9) FIELD INTERNSHIP - 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; two content methods courses.

EDT 459. Crt Rdg Wrtg Cnt Ar. 3 Hours
CRITICAL READING AND WRITING IN THE CONTENT AREA - This class focuses on the teaching of reading and writing in the AYA and multi-age content area that includes instruction in organizing instruction, use of protocols for oral language development, strategies for word skill development, strategies for reading comprehension, and assessment strategies for instructional purposes for the multi-age and adolescence to young adult licenses. Prerequisite(s): EDT 110, EDT 222, EDT 338, EDT 338L. Corequisite(s): EDT 305; two content methods courses.

EDT 460E. ErlyChldPrgmPersnlMng. 3 Hours
EARLY CHILDHOOD PROGRAM AND PERSONNEL MANAGEMENT - This course is the first in the Early Childhood Leadership program. Students will explore program and personnel management and human relations in early care and education. Corequisite(s): EDT 460EL.

EDT 460EL. ErlyDhdPrgmPrsnlMngLb. 0-1 Hours
EARLY CHILDHOOD PROGRAM AND PERSONNEL MANAGEMENT LABORATORY - This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to program and personnel management and human relations in early care and education. Corequisite(s): EDT 460E.

EDT 461E. SptQltyClminsElcyCrEd. 3 Hours
SUPPORTING QUALITY CURRICULUM AND INSTRUCTION IN EARLY CARE AND EDUCATION - This course provides opportunities for students to use research to identify and support quality early childhood curriculum, instruction, and assessment. Corequisite(s): EDT 461EL.

EDT 461EL. SptQltyClminsElcyCrEd. 0-1 Hours
SUPPORTING QUALITY CURRICULUM AND INSTRUCTION IN EARLY CARE AND EDUCATION LABORATORY - This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to using research to identify and support quality early childhood curriculum, instruction, and assessment. Corequisite(s): EDT 461E.

EDT 462. RgnsLcsLwErlyCreEd. 3 Hours
REGULATIONS, LICENSING, AND THE LAW IN EARLY CARE AND EDUCATION - This course addresses ethics in early care and education as well as issues related to health, safety, and nutrition regulations including first aid, communicable disease, safety policies, and practices. Reporting and recognizing child abuse is addressed. Students will learn to respond to regulations, licensing, and laws that impact programs for young children. Corequisite(s): EDT 462EL.

EDT 462EL. RgnsLcsLwErlyCreEdLb. 0-1 Hours
REGULATIONS, LICENSING, AND THE LAW IN EARLY CARE AND EDUCATION LABORATORY - This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to regulations, licensing and laws that impact programs for young children. Corequisite(s): EDT 462E.

EDT 463E. MngFnscMktErlyCreEd. 3 Hours
MANAGING FINANCES AND MARKETING IN EARLY CARE AND EDUCATION - Students will explore strategies for managing finances and developing marketing plans in the field of early care and education. Prerequisite(s): EDT 460E.

EDT 463EL. MngFnscMktErlyCreEdLb. 0-1 Hours
MANAGING FINANCES AND MARKETING IN EARLY CARE AND EDUCATION LABORATORY - This lab supports students in EDT 463E as they explore managing finances and developing marketing plans in the field of early care and education.

EDT 464E. AdvcyErlyCreEd. 3 Hours
ADVOCACY IN EARLY CARE AND EDUCATION - This course explores current political, educational, and societal issues related to early care and education and examines how teachers develop leadership skills to become better advocates for children, families, and the profession. Prerequisite(s): EDT 460E.

EDT 465E. ItnPrctmErlyChldAdm. 6 Hours
INTERNSHIP AND PRACTICUM IN EARLY CHILDHOOD ADMINISTRATION - This internship serves as the culminating experience where students demonstrate the knowledge, skills, and disposition addressed in the four proceeding early childhood leadership courses. Students complete a six week full time internship working with/ as a early childhood director or administrator. Prerequisite(s): EDT 460E.

EDT 471. Stdt Tch:Lang PK-12. 12 Hours
STUDENT TEACHING-FOREIGN LANGUAGES K-12 - 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; completion of 80% of the content area courses.
EDT 472. PKSE Internship. 5 Hours
INTERNSHIP IN PRE-KINDERGARTEN SPECIAL NEEDS - Supervised and evaluated teaching in a preschool special education setting. Candidates are to demonstrate the knowledge, skills, attitudes, and dispositions needed to comply with the National Association for the Education of Young Children (NAEYC) and the Division for Early Childhood of the Council of Exceptional Children (DEC) guidelines for appropriate practice that are specific to pre-kindergarten age children with special needs. Field experience required. Prerequisite(s): EDT 314, EDT 315, EDT 415, EDT 415L; Students must register for the course and submit a student teaching/internship application packet to the Department of Teacher Education by the deadline in January prior to the fall methods block.

EDT 473. Stdnt Tchng-Prim. 3-12 Hours
STUDENT TEACHING-PRIMARY GRADES - 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.

EDT 474. Std Tch Mid Childhd. 12 Hours
STUDENT TEACHING-MIDDLE CHILDHOOD - 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 the following: EDT 426, EDT 427, EDT 428, EDT 429; formal admission to student teaching a full semester in advance.

EDT 475. Student Teaching AYA. 12 Hours
STUDENT TEACHING-ADOLESCENT TO YOUNG ADULT - Full-time supervised and evaluated teaching in the content area in a junior or senior high school classroom. The candidate will 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; completion of 80% of the content area courses.

EDT 476. Stdt Tchng-Mild/Mod. 12 Hours
STUDENT TEACHING-INTERVENTION SPECIALIST: MILD/MODERATE - 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 seminars is required. Prerequisite(s): EDT 342, EDT 343, EDT 343L, EDT 344, EDT 442, EDT 442L, EDT 443, EDT 444, EDT 445; formal admission to student teaching a full semester in advance.

EDT 477. Stdt Tchng-Art K-12. 12 Hours
STUDENT TEACHING-ART K-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, VAE 383, VAE 483; formal admission to student teaching a full semester in advance and the methods courses.

EDT 479. Stdt Tchng-Mus K-12. 12 Hours
STUDENT TEACHING-MUSIC K-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, MUS 332, MUS 335; formal admission to student teaching a full semester in advance; piano proficiency and completion of junior/senior recital.

EDT 486. comp Stdy-Pub Educatn. 3 Hours
COMPARATIVE STUDY-PUBLIC EDUCATION - This course is designed to study the background and development of education as compared to educational systems in other countries. The organizing themes are how social, political, and cultural foundations shape schools. Comparisons across countries and cultures will provide a context to understand how educational practices are shaped by culture.

EDT 498. Honors Thesis. 3 Hours
HONORS THESIS - 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 juniors in the University Honors or Berry Scholars Programs with permission of the program director and EDT chairperson. Prerequisite(s): Permission of department chairperson and program director.

EDT 499. Honors Thesis. 3 Hours
HONORS THESIS - 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 seniors in the University Honors or Berry Scholars Programs with permission of the program director and EDT chairperson.
School of Engineering

Tony E. Saliba, Ph.D., Dean, School of Engineering Wilke Distinguished Professor
Riad Alakkad, Associate Dean for Undergraduates Studies
John Weber, Associate Dean for Graduate Studies
Margaret Pinnell, Assistant Dean for Recruitment and Outreach

Our Vision

The Vision of the School of Engineering is to become a preeminent engineering school providing transformational learning experiences that prepare engineering students for leadership, service, and success in life, profession, and society. It is our goal to be recognized for outstanding engineering research that positively advances the human condition, addresses critical needs of the world, and provides economic growth to our region, our nation, and our world. Finally, we are committed to being a nurturing, inclusive environment that promotes the development of all members of the School of Engineering family to their full potential while supporting and advancing the Catholic and Marianist mission of the University of Dayton.

Our Mission

The Mission of the School of Engineering is to educate complete professionals who have an integrated knowledge of the theory and practice of engineering together with an equally strong understanding of the arts and sciences that will prepare them for fulfilling careers of leadership, service, and life-long learning for the good of society.

Our Purpose

The School of Engineering has as its primary purpose the education of men and women toward a profound knowledge that engineering is more than a problem-solving discipline. While our curriculum and our research do not directly address issues of faith, we nonetheless affect in many ways the character and sensibilities of our students, not just as problem solvers but as individuals who respect the world that they shape for the good of others. Accordingly, our students receive an education that is rigorously directed toward advanced knowledge in engineering, while demonstrating at every turn the important relationships and interdependencies that exist between engineering and the rest of the disciplines across the full spectrum of human knowledge. We therefore educate students to be both intellectually astute and discerning in all their work and morally responsible in the face of the demands and rewards of our ever-changing world.

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. First-year students are advised by an advising team. At the end of the second semester, each student is assigned a faculty advisor in his/her program. Academic advising begins before the students begin their formal coursework.

Courses

EGR 100. Enrichment Workshop. 0-3 Hours
ENRICHMENT WORKSHOP A - workshop structured to provide collaborative learning of engineering calculus facilitated with upper-class engineering students. Required course both semesters for first-year students.

EGR 102. Seminar for UEG. 0 Hours
SEMINAR FOR UEG - Introduction to engineering faculty, facilities, and curriculum; survey of career opportunities in engineering; orientation to the university. This course is part of the Integrated Engineering Core for all engineering students.

EGR 103. Engineering Innovation. 2 Hours
ENGINEERING INNOVATION - First year multi-disciplinary innovation projects primarily geared towards skill development in the areas of requirements analysis, creativity, conceptual design, design and problem-solving processes, prototyping, teamwork, and project communications. Application to the development of a new product or technology meeting societal needs. This course is part of the Integrated Engineering Core for all engineering students.

Academic Programs

The engineering program in each of the fields of chemical (p. 321), civil (p. 327), computer (p. 333), electrical (p. 332), and mechanical engineering (p. 351) 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 minors in areas such as aerospace engineering (p. 352), bioengineering (p. 323), chemical processing (p. 323), composite materials engineering (p. 323), computer systems (p. 334), engineering management (p. 337), engineering mechanics (p. 328), environmental engineering (p. 328), materials engineering (p. 324), mechanical systems (p. 352), operations engineering (p. 337), polymer materials (p. 324), signals and systems (p. 334), structures (p. 328), transportation engineering (p. 328) and water resources engineering (p. 329) in the School of Engineering and in other areas such as languages, music, and political science in other units of the University. Concentrations in the School of Engineering include aerospace engineering (p. 352), electro-optics (p. 333), energy systems-chemical (p. 322), energy systems-mechanical (p. 352) and robotics (p. 334). 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 ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

The programs in electronic & computer, industrial, global manufacturing systems, and mechanical engineering technology are accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

Margaret Pinnell, Assistant Dean for Recruitment and Outreach
Riad Alakkad, Associate Dean for Undergraduates Studies
EGR 198. Research & Innvtn Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

EGR 200. Pro Development Sem. 0 Hours
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

EGR 201. Engr Mechanics. 3 Hours
ENGINEERING MECHANICS - This course provides an introduction to mechanics as applied to engineering problems. Principles of force and moment balance, work, and energy conservation are applied to systems in static equilibrium. The similarity of balance laws applied to mechanical behavior to those used in thermodynamics and electric circuits is introduced. Students are introduced to the concepts of free-body diagrams and equivalent systems of forces, properties of areas and sections, analysis of simple structures, internal forces, stress, and material failure. Introduces a common problem-solving approach and processes to address and solve open ended problems and creative application of theory. Both analytical and computer solutions of engineering mechanics problems are emphasized. This course is part of the Integrated Engineering Core for all engineering students. Prerequisite(s): MTH 168; PHY 206.

EGR 202. Engr Thermodynamics. 3 Hours
ENGINEERING THERMODYNAMICS - This course provides an introduction to engineering thermodynamics, emphasizing the vital importance of energy generation and efficiency from a multi-disciplinary perspective. State descriptions of pure substances and mixtures. Control volume analysis and conservation principles applied to systems with respect to mass, energy, and entropy with applications to power, refrigeration, chemically reacting and other energy conversion systems. Introduces a common problem-solving approach and processes to address real, open ended problems and creative application of theory. Both analytical and computer solutions of engineering thermodynamics problems are emphasized. This course is part of the Integrated Engineering Core for all engineering students. Prerequisite(s): MTH 168.

EGR 203. Electrl & Electnc Crt. 3 Hours
ELECTRICAL AND ELECTRONIC CIRCUITS - This course provides an introduction to the discipline of Electrical and Computer Engineering. Covers principles of linear circuit analysis and problem solving techniques associated with circuits containing both passive and active components. Students are introduced to DC circuit analysis, AC circuit analysis, and transient circuit analysis. Applications of basic electronic devices including diodes, transistors, and operational amplifiers are studied. Both analytical and computer solutions of electrical and electronic circuit problems are emphasized. This course is part of the Integrated Engineering Core for all engineering students. Prerequisite(s): MTH 168.

EGR 298. Research & Innvtn Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

EGR 300. Engr Dsgn & Appr Techq. 0-3 Hours
ENGINEERING DESIGN AND APPROPRIATE TECHNOLOGY - An experiential course in appropriate technology and engineering design which spans the winter and summer semesters and includes language preparation, cultural immersion, selected readings, and discussions on appropriate technology and a six to sixteen week summer service-learning experience focused on technical or engineering related work in a developing country. Prerequisite(s): Junior or senior status; permission of instructor.

EGR 301. Prin of Nanotechnlgy. 3 Hours

EGR 302. Sys Des Scholars Sem. 3 Hours
SYSTEMS DESIGN SCHOLARS SEMINAR - Interdisciplinary systems-design experience to emphasize the basic problem-solving approach and philosophy of engineering for students of varied backgrounds. By permission only.

EGR 330. Engr Dsgn & Appr Techq. 0-3 Hours
ENGINEERING DESIGN AND APPROPRIATE TECHNOLOGY - An experiential course in appropriate technology and engineering design which spans the winter and summer semesters and includes language preparation, cultural immersion, selected readings, and discussions on appropriate technology and a six to sixteen week summer service-learning experience focused on technical or engineering related work in a developing country. Prerequisite(s): Junior or senior status; permission of instructor.

EGR 398. Research & Innvtn Lab. 1-3 Hours
MULTIDISCIPLINARY 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.

EGR 493. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

EGR 494. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): EGR 493.
EGR 498. Honors Thesis. 3-6 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

EGR 499. Engr Systems Design. 3 Hours
ENGINEERING SYSTEMS DESIGN - This course will provide students of varied backgrounds with an interdisciplinary systems-design experience of applying basic engineering problem-solving and process-oriented approaches to a set of case studies while examining those case studies through different philosophical perspectives on engineering itself.

Engineering Technology
The School of Engineering also offers a Bachelor of Science in Engineering Technology. The programs in which the degree is offered are:

- Electronic and Computer Engineering Technology
- Global Manufacturing Systems Engineering Technology
- Industrial Engineering Technology
- Mechanical engineering Technology

Students in Engineering Technology programs participate in an integrated education core in which they study specialized technical courses that emphasize rational thinking and the application of engineering and scientific principles to the practical solution of technological problems. Extensive laboratory experience aids the students in the design, analysis, and implementation of systems as well as experiencing real-world application problems. The multidisciplinary curriculum culminates in a capstone design project. All programs offer a cooperative education program in which the student is allowed to alternate work and study semesters after the first year. Additionally, many students acquire experience through internships, summer work, or study abroad.

Graduates are critical thinkers who can apply established scientific and engineering knowledge to implement systems, and are prepared to take places in society as responsible, humane, complete professionals. They work effectively on multidisciplinary design teams building complex systems. Graduates are usually involved in the design, performance evaluation, service, and sales of products, equipment, and manufacturing systems or the management of these activities. Several years after graduation, they may find themselves in management positions.

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.

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.

The minors available to engineering technology students are:

- Automotive Systems
- Electronic and Computer Engineering Technology
- Global Manufacturing Systems Engineering Technology
- Industrial Automation and Applied Robotic Systems
- Industrial Engineering Technology
- Integrated Arts & Technology
- Mechanical Engineering Technology
- Quality Assurance
- Sustainable Manufacturing

A minor in Engineering Technology is also offered for students enrolled in majors in the College of Arts and Sciences, the School of Business Administration, and the School of Education and Allied Professions.

ACCREDITATION
The programs in electronic & computer, global manufacturing systems, industrial, and mechanical engineering technology are accredited by the Engineering Technology Accreditation Commission of ABET 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

ENGINEERING TECHNOLOGY FIRST-YEAR REQUIREMENTS
Students selecting any of the four 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 below.

Total first-year requirements (33):

- MTH 137-138 Calculus I with Review (8)
- MCT 110L Technical Drawing & CAD (2)
- SET 153L Technical Computation Laboratory (1)
- CHM 123-123L General Chemistry with Laboratory (4)
- EGR 103 Engineering Innovation (2)
- ENG 100-200 or 200H English Composition I, II (6)
- REL 103 Introduction to Religion (3)
- PHL 103 Introduction to Philosophy (3)
- HST 103 The West and the World (3)
- SET 100 First-Year Seminar (1)
- SET 101 Enrichment Workshop (0)

Minors in Engineering
The student majoring in chemical, civil, computer, electrical, or mechanical engineering may choose a minor area of technical study. The minors 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.

The minors available to engineering students are:

- Aerospace Engineering
- Bioengineering
- Chemical Processing
- Composite Materials Engineering
- Computer Systems
- Engineering Management
- Engineering Mechanics
- Environmental Engineering
- Materials Engineering
- Mechanical Systems
- Operations Engineering
- Polymer Materials
- Signals and Systems
- Structures
- Transportation Engineering
- Water Resources Engineering

A 12 semester hour concentration in electro-optics is available to electrical and computer engineering undergraduates. A 16 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.

### 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.

### 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.

#### Required First-Year Program

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>110</td>
<td>Group Dec-Making</td>
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<td>Inform Public Sp</td>
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<td>or 112</td>
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<td>113</td>
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<td>Enrichment Workshop</td>
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<td>103</td>
<td>Engineering Innovat</td>
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<td>100 &amp; 200</td>
<td>Writing Seminar I</td>
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<td>or 200H</td>
<td>Writing Seminar II</td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>Intro To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>206</td>
<td>Gen Physics I Mech</td>
<td>3</td>
</tr>
<tr>
<td>103</td>
<td>Intro to Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

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4. 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.

5. The student must have taken their last 30 semester hours through the School of Engineering at the University of Dayton.

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: 134
- Bachelor of Mechanical Engineering: 132
- Bachelor of Science in Computer Engineering: 137

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: 131
- Electronic and Computer Engineering Technology Major: 131
- Global Manufacturing Systems Engineering Technology Major: 133
- Industrial Engineering Technology Major: 131
- Mechanical Engineering Technology Major: 132
Transfer Students

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 Community College.

Bachelor's Plus Master's Program

The School of Engineering offers a combined program leading to both a bachelor’s degree in an engineering major 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 may be made as early as before the first semester of the student’s junior year, but the student should consult their department to determine exactly when this request should be made. 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 and chair/program director of selected master’s program. Students must formally apply to the graduate school during their senior year. Selection of the graduate (master’s) program area is indicated below:

---

<table>
<thead>
<tr>
<th>Course Area</th>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Year</td>
<td>1st Term</td>
<td>2nd Term</td>
</tr>
</tbody>
</table>

---

1. Chemical engineering majors take CMM the first semester. Electrical, computer and mechanical engineering majors take this requirement the second semester. Civil engineering majors postpone this requirement.

2. Required both semesters.

3. 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.

4. Chemical engineering students postpone this requirement until the second semester.

5. Chemical, civil, and mechanical engineering students must take CHM 123L; computer and electrical engineering students take PHY 210L.

6. Chemical, mechanical and civil engineering students are not required to take any programming course in the first year. Computer and electrical engineering students must take CPS 150 in the second semester. Mechanical engineering students take MEE 104L in the second semester of the first year.

<table>
<thead>
<tr>
<th>Undergraduate Program</th>
<th>Graduate Program Selections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Technology</td>
<td>Engineering Management, Management Science, Materials Engineering</td>
</tr>
<tr>
<td>Physics</td>
<td>Electro-Optics, Materials Engineering</td>
</tr>
</tbody>
</table>

* This major may need additional courses to qualify for the master’s program.

The department chairperson and the graduate program director serve as an advisory committee to the student in establishing the 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 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.
Major:

Engineering

Chemical and Materials

explore the departments in the menu on the right.

To learn more about the available programs in the School of Engineering,
Programs of Study

jobs.

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

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.

Programs of Study

To learn more about the available programs in the School of Engineering, explore the departments in the menu on the right.

Chemical and Materials Engineering

Major:

• Bachelor of Chemical Engineering

Concentration:

• Energy Systems

Minors:

• Bioengineering
• Chemical Processing
• Composite Materials Engineering
• Energy Production Engineering
• Materials Engineering
• Polymer Materials

The Chemical & Materials Engineering Department offers an undergraduate program leading to a Bachelor of Chemical Engineering degree. 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 academia. Many use a chemical engineering education as a pathway 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 for 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 graduates are:

• Chemical Engineering graduates have successful careers in the chemical process industry with the skills necessary to have opportunities to work in non-traditional industries and positions.
• Chemical Engineering graduates are successful at prestigious graduate, medical, and law schools.
• Chemical Engineering graduates are committed to performing ethically while serving their professions, companies, and communities.

<table>
<thead>
<tr>
<th>Undergraduate department major</th>
<th>11</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate department or University requirement or electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Graduate major (taken as graduate credit)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total semester hours</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>Fifth Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate major (including thesis or project)*</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

* Civil Engineering majors require three additional semester hours for project option.
• Chemical Engineering graduates exhibit strong critical thinking skills from the breadth of their general education and the depth of their foundation in engineering principles, and engage in continuous intellectual and personal growth.

Faculty
Charles E. Browning, Department Chairperson
Robert J. Wilkens, Chemical Engineering Director
Professors Emeriti: Lu, Snide
Professors: Browning, Eylon, Flach, Fried, Laldí, Lee, Myers, T. Saliba, Sandhu, Wilkens
Associate Professor: Gold
Assistant Professor: Comfort
Senior Lecturer: Ciric
Lecturer: Elsass

Bachelor of Chemical Engineering (CME)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 123L</td>
<td>Gen Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHM 124</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 124L</td>
<td>Gen Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHM 313</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 313L</td>
<td>Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHM 314</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 314L</td>
<td>Organic Chem Lab</td>
<td>1</td>
</tr>
<tr>
<td>CME 101</td>
<td>Intro to CME (2 semesters)</td>
<td>0-1</td>
</tr>
<tr>
<td>CME 200</td>
<td>Prof Development Sem (2 semesters)</td>
<td>0-1</td>
</tr>
<tr>
<td>CME 203</td>
<td>Mat&amp;Energy Balance</td>
<td>3</td>
</tr>
<tr>
<td>CME 281</td>
<td>Chm Engr Computatsns</td>
<td>3</td>
</tr>
<tr>
<td>CME 306</td>
<td>CME Rctn Knths&amp;Engr</td>
<td>3</td>
</tr>
<tr>
<td>CME 311</td>
<td>Chm Engr Thrdynamcs</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>Transport Phenom I</td>
<td>3</td>
</tr>
<tr>
<td>CME 325</td>
<td>Transport Phenom II</td>
<td>3</td>
</tr>
<tr>
<td>CME 326L</td>
<td>Transport Phenom Lab</td>
<td>2</td>
</tr>
<tr>
<td>CME 365</td>
<td>Separatin Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CME 381</td>
<td>Adv Math-Chem Engrs</td>
<td>3</td>
</tr>
<tr>
<td>CME 408</td>
<td>Seminar (2 semesters)</td>
<td>0-1</td>
</tr>
<tr>
<td>CME 430</td>
<td>CME Design I</td>
<td>3</td>
</tr>
<tr>
<td>CME 431</td>
<td>CME Design II</td>
<td>3</td>
</tr>
<tr>
<td>CME 452</td>
<td>Process Control</td>
<td>3</td>
</tr>
<tr>
<td>CME 453L</td>
<td>Process Control Lab</td>
<td>2</td>
</tr>
<tr>
<td>CME 456</td>
<td>Fluid Flow&amp;Ht Tr Pro</td>
<td>3</td>
</tr>
<tr>
<td>CME 466L</td>
<td>Chem Engr Oper Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

| CME elective | 1 |

| Engineering/Science electives | 6 |
| General Education electives   | 3 |
| Total Hours                   | 12 |
| Total Hours                   | 137 |

1 Must be selected from list approved by the Chemical and Materials Engineering Department.
2 Must be selected from approved list of PHL or REL ethics courses.

Concentration in Energy Systems - Chemical (CES)
This concentration is open to all engineering students. The Energy Systems Concentration provides an interdisciplinary concentration in energy systems and its social consequences. Students completing this concentration will be prepared for jobs in both industrial and building energy systems, a rapidly growing market.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 320</td>
<td>Cities and Energy</td>
<td>1-2</td>
</tr>
<tr>
<td>CME 203</td>
<td>Mat&amp;Energy Balance</td>
<td>3</td>
</tr>
<tr>
<td>CME 311</td>
<td>Chm Engr Thrdynamcs</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>Transport Phenom I</td>
<td>3</td>
</tr>
<tr>
<td>CME 325</td>
<td>Transport Phenom II</td>
<td>3</td>
</tr>
<tr>
<td>CME 326L</td>
<td>Transport Phenom Lab</td>
<td>2</td>
</tr>
<tr>
<td>CME 430</td>
<td>CME Design I</td>
<td>3</td>
</tr>
<tr>
<td>CME 431</td>
<td>CME Design II</td>
<td>3</td>
</tr>
<tr>
<td>CME 465</td>
<td>Fluid Flow&amp;Ht Tr Pro</td>
<td>3</td>
</tr>
<tr>
<td>CME 466L</td>
<td>Chem Engr Oper Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

| CME elective | 1 |

Select one course:
- CME 486 Intro-Petroleum Engr
- or CME 586 Intro-Petroleum Engr
- CME 524 Electrochem Pwr
- or MEE 575 Fatg&Frac-Mtl&Alloy
- CME 565 Fund of Combustion
- CME 574 Air Pollutn I

Select two courses:
- Select any CME elective course above 3
- AEE 560 Propulsion Systems
- or MEE 560 Propulsion Systems
- CME 507 Adv Thermodynamics
- or MEE 511 Adv Thermodynamics
Minor in Bioengineering (BIE)
This minor is open to chemical, civil, computer, electrical, and mechanical engineering majors. The program is designed to expose the student to the use of engineering principles in biological systems and applications.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151</td>
<td>Concepts of Bio I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 152</td>
<td>Concepts of Bio II</td>
<td>3</td>
</tr>
<tr>
<td>CME 490</td>
<td>Intro-Bioengineering I</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 491</td>
<td>Biomed Engr I</td>
<td>3</td>
</tr>
<tr>
<td>MEE 530</td>
<td>Biomechanical Egr</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

1 Course cannot have already been chosen above.

Minor in Chemical Processing (CHP)
This minor is open to civil, computer, electrical, and mechanical engineering majors. The program is designed to acquaint the student with industrial operations in the chemical process industries such as heat exchange, distillation, extraction, humidification, etc. The elective courses cover a wide range of topics to accommodate the student’s special interests.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151</td>
<td>Concepts of Bio I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 152</td>
<td>Concepts of Bio II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 312</td>
<td>General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 403</td>
<td>Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 411</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 440</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHM 420</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 451</td>
<td>Gen Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 452</td>
<td>Gen Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CME 491</td>
<td>Biomed Engr I</td>
<td>3</td>
</tr>
<tr>
<td>CME 492</td>
<td>Chem &amp; Bio Sensors</td>
<td>3</td>
</tr>
<tr>
<td>BIE 595</td>
<td>Special Problems</td>
<td>3</td>
</tr>
<tr>
<td>MEE 530</td>
<td>Biomechanical Egr</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

1 Course cannot have already been chosen above.
MEE 473/573/ Renewable Energy Sys
RCL 573
RCL 590 Spec Probs in RCL 1
RCL 590 Spec Probs in RCL 2
RCL 590 Spec Probs in RCL 3
Total Hours 12
1 Must be Thermal Systems Analysis.
2 Must be Solar Energy Engineering.
3 Must be Wind Energy Engineering.

Minor in Materials Engineering (MAT)
This minor is open to all engineering majors. A general overview of materials with choice courses in polymers, composites, nanomaterials, and material characterization.

MAT 501 Prin-Materials I 3
MAT 502 Prin of Materials II 3
Select two courses from: 6
CME 509 Intro Polymr Science
or MAT 509 Intro-Polymer Sci
CME 510 High Prf Therm-Polymr
or MAT 510 High Prf Therm-Polymr
CME 511 Prin of Corrosion
or MAT 511 Prin of Corrosion
CME 512 Adv Composites
or MAT 542 Adv Composites
CME 527 Methds-Polymer Analy
or MAT 527 Methds-Polymer Analy
CME 528 Chem Behav of Matls
or MAT 528 Chem Behav of Matls
CME 529 Energy Materials
or MAT 579 Mtls Adv Egr Appl
CME 580 Polymers Durability
or MAT 580 Polymer Durability
MAT 504 Techqs-Materls Anal
MAT 506 Mech Behavior-Matrls
MAT 507 Intro-Ceramic Matrls
MAT 508 Prin-Materls Selectn
MAT 521 NDE/SHM
MAT 535 High Temperture Matl
MAT 541 Exp Mech Cmpsite Mat
MAT 543 Analy Mech-Cmp Matls
MAT 544 Mech-Composite Struc
MAT 575 Fracture & Fatigue
MAT 577 Lght Structl Metals
MAT 590 Selected Readings
MAT 595 Special Problems
MAT 601 Surface Chem Solids
MAT 604 Nanostruc Matrls
MEE 312 Engr Materials I
Total Hours 12

Minor in Polymer Materials (PME)
This minor is open to all engineering majors. Coverage of polymers including thermosets and thermoplastics and composite materials in which polymers are used as constituents. Methods of polymer processing and polymer characterization are also included.

CME 509 Intro Polymr Science 3
or MAT 509 Intro-Polymer Sci
CME 510 High Prf Therm-Polymr 3
or MAT 510 High Prf Therm-Polymr
Select two courses from: 6
CME 512 Adv Composites
or MAT 542 Adv Composites
CME 527 Methds-Polymer Analy
or MAT 527 Methds-Polymer Analy
CME 528 Chem Behav of Matls
or MAT 528 Chem Behav of Matls
CME 580 Polymers Durability
or MAT 580 Polymer Durability
MAT 540 Composite Design
MAT 543 Analy Mech-Cmp Matls
Total Hours 12

Courses
CME 101. Intro to CME. 0-1 Hours
INTRODUCTION TO CHEMICAL ENGINEERING - Introduction to the chemical engineering faculty, facilities, and curriculum; survey of career opportunities in chemical engineering. Introduction to the University first-year experience.

CME 198. Research&Innvtn Lab. 1-6 Hours
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 analysing 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 200. Prof Development Sem. 0-1 Hours
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

CME 203. Matl&Energy Balance. 3 Hours
MATERIAL AND ENERGY BALANCES - Introductory course on the application of mass and energy conservation laws to solve problems typically encountered in chemical process industries. Prerequisite(s): CHM 123; MTH 168. Corequisite(s): EGR 202.
CME 281. Chm Engr Computatns. 3 Hours
CHEMICAL ENGINEERING COMPUTATIONS - Development of computational skills with an emphasis on algorithm development and problem solving. Computational skills are applied to typical problems in chemical engineering, engineering data analysis and statistics. Corequisite(s): CME 203.

CME 298. Research&Innvt Lab. 1-6 Hours
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.

CME 306. CME Rctn Kntcs&Engr. 3 Hours
CHEMICAL REACTION KINETICS AND ENGINEERING - Chemical reaction kinetics, ideal reactor analysis and design, multiple reactor/ reaction systems, and heterogeneous catalysis. Prerequisite(s): CME 311.

CME 311. Chm Engr Thrmodynmc. 3 Hours
CHEMICAL ENGINEERING THERMODYNAMICS - Development and application of the fundamental principles of chemical thermodynamics: Vapor/liquid equilibrium, solution thermodynamics, chemical reaction equilibria, and thermodynamic analysis of chemical engineering processes. Prerequisite(s): CME 203; EGR 202; MTH 218.

CME 324. Transport Phenom I. 3 Hours
TRANSPORT PHENOMENA I - Viscosity, shell momentum balances, isothermal equations of change, thermal conductivity, shell energy balances, non-isothermal equations of change, mass diffusivity, shell species mass balances, equations of change for multicomponent systems. Prerequisite(s): CME 203, CME 281; MTH 219. Corequisite(s): CME 381.

CME 325. Transport Phenom II. 3 Hours
TRANSPORT PHENOMENA II - Multidimensional momentum, energy, and mass transport, dimensionless parameters, turbulence and numerical solution methods. Prerequisite(s): CME 324, CME 381.

CME 326L. Transport Phenom Lab. 1-2 Hours
TRANSPORT PHENOMENA LABORATORY - Viscosity, conductivity, diffusion coefficient measurements, velocity, temperature, concentration profiles, engineering instrumentation, and experimental error analysis. Prerequisite(s): CME 324. Corequisite(s): CME 325.

CME 365. Separatn Techniques. 3 Hours
SEPARATION TECHNIQUES - Equilibrium staged separations: distillation, extraction and absorption, with an emphasis on distillation. Prerequisite(s): CME 311, CME 324.

CME 381. Adv Math-Chem Engrs. 3 Hours
ADVANCED MATHEMATICS FOR CHEMICAL ENGINEERS - Study of analytical and numerical techniques to support upper-level chemical engineering classes. Vector analysis, matrices, differential equations, numerical integration and differentiation, root finding, and curve fitting ordinary and partial differential equations. Prerequisite(s): CME 281; MTH 219.

CME 398. Research&Innvt Lab. 1-6 Hours
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.

CME 408. Seminar. 0-1 Hours
SEMINAR - Presentation of lectures on contemporary chemical engineering subjects by students, faculty, and engineers in active practice. Registration required of senior students only.

CME 409. Intro-Polymer Engr. 3 Hours
INTRODUCTION TO POLYMER SCIENCE-THERMOPLASTICS - Broad technical overview of the nature of synthetic macromolecules, including the formation of polymers and their structure, structure-property relationships, polymer characterization and processing, and applications of polymers. Fundamental topics such as viscoelasticity, the glassy state, time-temperature superposition, polymer transitions, and free volume will also be reviewed. The course focuses on thermoplastic polymers. Prerequisite(s): CHM 313, PHY 206, MTH 219.

CME 410. Hgh Prf Therm-Polymr. 3 Hours
HIGH PERFORMANCE THERMOSET POLYMERS - Survey of high performance thermoset resins, focusing on chemistry, processing and properties of six general resin families; vinyl ester, epoxy, phenolic, cyanate ester, bismaleimide, and polyimides. The course will include fundamental discussions of polymerization mechanisms, network structure development, rheology and time-temperature transformation, resin toughening, and structure-processing-property relationships. Characterization techniques will also be reviewed. Prerequisite(s): CHM 313.

CME 412. Adv Composites. 3 Hours
ADVANCED COMPOSITES - Materials and processing. Comprehensive introduction to advanced fiber reinforced polymeric matrix composites. Constituent materials and composite processing will be emphasized with special emphasis placed on structure-property relationships, the role of matrix in composite processing, mechanical behavior, and laminate processing. Specific topics will include starting materials, material forms, processing, quality assurance, test, methods, and mechanical behavior. Prerequisite(s): (CME 409 or CME 509 or MAT 501) or permission of instructor.

CME 429. Computational Chem. 3 Hours
COMPUTATIONAL CHEMISTRY - Introduction to computational chemistry including a discussion of ab initio, semiempirical, and DFT methods and an overview of molecular mechanics and molecular simulation methods. Lectures are supplemented by simulation exercises using commercial programs such a Gaussian and Molecular Studio. Prerequisite(s):CHM 124 or permission of instructor.

CME 430. CME Design I. 3 Hours
CHEMICAL ENGINEERING DESIGN I - Study of basic design concepts, safety and health issues, capital cost estimation, manufacturing cost estimation, basic economics and profitability analysis, materials of construction, materials selection and process vessel design. Prerequisite(s): CME 203.
CME 431. CME Design II. 3 Hours
CHEMICAL ENGINEERING DESIGN II - Project-based study of principles of process design and economics, use of process flowsheet simulators, short-cut design procedures, process optimization, and plant layout. Prerequisite(s): CME 306, CME 365, CME 430, CME 465.

CME 432. Chem Product Design. 3 Hours
CHEMICAL PRODUCT DESIGN - Application of the design process to products based on chemical technology. Coverage of the entire design process from initial identification of product needs, to the generation and selection of product ideas, and culminating in the manufacture of a new product.

CME 452. Process Control. 3 Hours
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. Prerequisite(s): CME 381.

CME 453L. Process Control Lab. 2 Hours
PROCESS CONTROL LABORATORY - Team-based, project oriented study of process dynamics and digital control using computer-based data acquisition and control systems with a focus on real time process monitoring and control. Prerequisite(s): (CME 452, CME 466L) or permission of instructor.

CME 465. Fluid Flow&Ht Tr Pro. 3 Hours
FLUID FLOW AND HEAT TRANSFER PROCESSES - Fluid mechanics, transportation and metering of fluids, heat transfer and its applications. Prerequisite(s): CME 311, CME 324.

CME 466L. Chem Engr Oper Lab. 2 Hours
CHEMICAL ENGINEERING UNIT OPERATIONS LABORATORY - Study of the equipment and utilization of various chemical engineering processes. Team based experimentation includes designing, and performing experiments on common chemical process unit operations apparatuses. After experimentation, students analyze data and compare with literature for experiment validation. Report writing and group presentations are emphasized. Prerequisite(s): CME 365. Corequisite(s): CME 465.

CME 486. Intro-Petroleum Engr. 3 Hours
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.

CME 489. Princ Biol for Bioen. 3 Hours
PRINCIPLES OF BIOLOGY FOR BIOENGINEERS - This course is designed for students with undergraduate majors in engineering or non-biological sciences. The focus of the course is to provide a common broad base of basic knowledge and terminology in the biological sciences required for coursework in the bioengineering emphasis tracts. Prerequisite(s): (BIO 151, BIO 152) or permission of instructor.
Civil and Environmental Engineering and Engineering Mechanics

Major:
- Bachelor of Civil Engineering

Minors:
- Engineering Mechanics
- Environmental Engineering
- Structures
- Transportation Engineering
- Water Resources Engineering

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 prepared to meet the following program educational objectives:
- have successful careers in civil engineering or other professions
- pursue advanced degrees in support of their chosen profession
- conduct professional and personal endeavors in a responsible and ethical manner
- seek service and leadership roles in their profession and community
- continue their 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.

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
Donald V. Chase, Chairperson

Professors Emeriti: Bogner, J. Whitney
Distinguished Service Professor: Ryckman
Professor: J. Saliba
Associate Professor: Eustace
Assistant Professors: Bilgin, Crosson, Donaldson, D. Taylor, Toubia, T. Whitney
Lecturer: Alakkad
Visiting Professor: Chase
Adjunct Assistant Professor: McCrate

Bachelor of Civil Engineering (cee)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>CEE 101</td>
<td>Intro to Civil Engr (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>CEE 200</td>
<td>Prof Development Sem (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>CEE 213</td>
<td>Surveying</td>
<td>2</td>
</tr>
<tr>
<td>CEE 214</td>
<td>Highway Geometrics</td>
<td>2</td>
</tr>
<tr>
<td>CEE 215L</td>
<td>Surveying Field Prac</td>
<td>3</td>
</tr>
<tr>
<td>CEE 221L</td>
<td>Civil Computn Lab</td>
<td>2</td>
</tr>
<tr>
<td>CEE 300</td>
<td>Seminar (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>CEE 311</td>
<td>Civil Engr Materials</td>
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<tr>
<td>&amp; 311L</td>
<td>and Civil Engr Mats Lab</td>
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<tr>
<td>CEE 312</td>
<td>Geotechnical Engr</td>
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<td>&amp; 312L</td>
<td>and Geotechncl Engr Lab</td>
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<tr>
<td>CEE 313</td>
<td>Hydraulics</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 313L</td>
<td>and Hydraulics Lab</td>
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<tr>
<td>CEE 316</td>
<td>Analy of Strctures I</td>
<td>3</td>
</tr>
<tr>
<td>CEE 333</td>
<td>Water Resources Engr</td>
<td>3</td>
</tr>
<tr>
<td>CEE 400</td>
<td>Prof Developmnt Sem (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>CEE 403</td>
<td>Transportation Engr</td>
<td>3</td>
</tr>
<tr>
<td>CEE 411</td>
<td>Deg-Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CEE 412</td>
<td>Dsgn-Concrete Struc</td>
<td>3</td>
</tr>
<tr>
<td>CEE 425</td>
<td>Civil Engr Systems</td>
<td>3</td>
</tr>
<tr>
<td>CEE 434</td>
<td>Water &amp; Waste Engr</td>
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</tr>
<tr>
<td>&amp; 434L</td>
<td>and Watr&amp;Waste Engr Lab</td>
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<tr>
<td>CEE 450</td>
<td>Civil Engr Design 1</td>
<td>3</td>
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<tr>
<td>CHM 123</td>
<td>General Chemistry</td>
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<tr>
<td>&amp; 123L</td>
<td>and Gen Chemistry Lab</td>
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<tr>
<td>CHM 124</td>
<td>General Chemistry</td>
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<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
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<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
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or CMM 112   | Persuasive Public Sp                            |         |
| CMM 113     | Interviewing                                    | 1       |
| EGM 202     | Dynamics                                         | 3       |
| EGM 303     | Mechanics II                                    | 3       |
| EGR 100     | Enrichment Workshop (2 semesters)               | 0       |
| EGR 103     | Engineering Innovath                            | 2       |
| EGR 201     | Engr Mechanics                                  | 3       |
| EGR 202     | Engr Thermodynamics                             | 3       |
| EGR 203     | Electrc & Electnc Crt                          | 3       |
| ENG 100     | Writing Seminar I                               | 6       |
| & ENG 200   | and Writing Seminar II                          |         |
or ENG 200H  | Writing Seminar II                              |         |
| GEO 218     | Engineering Geology                             | 3       |
| HST 103     | West and World                                  | 3       |
or HST 198   | HST Scholars Sem                                 |         |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>HST 343</td>
<td>Hst-Civil Engr</td>
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<td>MTH 168</td>
<td>Anly Geom &amp; Calc I</td>
<td>4</td>
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<tr>
<td>MTH 169</td>
<td>Anly Geom &amp; Calc II</td>
<td>4</td>
</tr>
<tr>
<td>MTH 218</td>
<td>Anly Geom &amp; Calc III</td>
<td>4</td>
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<tr>
<td>MTH 219</td>
<td>Appl Diff Equations</td>
<td>3</td>
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<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
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<tr>
<td>PHY 206</td>
<td>Gen Physics I Mech</td>
<td>3</td>
</tr>
<tr>
<td>PHY 207</td>
<td>Gen Phy II Ele &amp; Mag</td>
<td>3</td>
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<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
<td>3</td>
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<td>CEE electives</td>
<td>General Education electives</td>
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<tr>
<td>Tech elective</td>
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<tr>
<td>Total Hours</td>
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<td>138</td>
</tr>
</tbody>
</table>

1 Admittance into CEE 450 requires successful completion of all required engineering courses with an average academic unit GPA of no less than 2.0, or approval of the chair.
2 Three semester hours waived if accepted into ENG 200H.
3 Select from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.
4 May be used to concentrate studies in the areas of construction, environmental, structures, geotechnical, transportation, and water resources engineering.
5 See General Education Requirement, Chapter V. Some General Education requirements are specific in the program; (e.g. GEO 218); Others are to be chosen from the listing of approved courses. Consult advisor.

**Minor in Engineering Mechanics (eme)**

This minor is open to all engineering majors. The program provides a broad treatment of engineering mechanics including theoretical, numerical, and experimental topics.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 540</td>
<td>Composites Design</td>
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<tr>
<td>or EGM 540</td>
<td>Composites Design</td>
</tr>
<tr>
<td>EGM 303</td>
<td>Mechanics II</td>
</tr>
<tr>
<td>EGM 503</td>
<td>Intr Continum Mechn</td>
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<tr>
<td>EGM 511</td>
<td>Exprrntl Stress Anly</td>
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<tr>
<td>EGM 533</td>
<td>Theory of Elasticity</td>
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<tr>
<td>EGM 546</td>
<td>Finite Elmnt Anly I</td>
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<td>MAT 540</td>
<td>Composite Design</td>
</tr>
<tr>
<td>MEE 504</td>
<td>Fund of Fluid Mech</td>
</tr>
</tbody>
</table>

Total Hours 12

1 Courses selected may not be those already required for student’s major.

**Minor in Environmental Engineering (eve)**

This minor is open to all non-civil engineering majors. The program defines contemporary problems of pollution and identifies the technological approaches necessary to preserve the quality of our environment.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 390</td>
<td>Envr Pollutn Cntri</td>
</tr>
<tr>
<td>CEE 434</td>
<td>Water &amp; Waste Engr</td>
</tr>
<tr>
<td>or CEE 499</td>
<td>Special Problems</td>
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<tr>
<td>CEE 563</td>
<td>Hazardous Waste Engr</td>
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<tr>
<td>or CEE 563</td>
<td>Hazardous Waste Engr</td>
</tr>
<tr>
<td>CEE 574</td>
<td>Fund of Air Pollution Engr</td>
</tr>
<tr>
<td>CEE 575</td>
<td>Air Pollution Engr</td>
</tr>
<tr>
<td>or CEE 575</td>
<td>Air Pollutn II</td>
</tr>
<tr>
<td>CHM 341</td>
<td>Environmental Chem</td>
</tr>
<tr>
<td>EGR 330</td>
<td>Engr Dsgn &amp; Appr Techq</td>
</tr>
</tbody>
</table>

Total Hours 12

1 Courses selected may not be those already required for student’s major. It is recommended the minor include one course pertaining to water, air, and solid.
2 Not permissible for CME students.
3 Or CEE 595 Special Problems in Civil Engineering.
4 No more than three credit hours of EGR 330, CEE 499, or other special project coursework may be applied to this minor. Subject to approval of the CEE chairperson within two weeks of the start of the semester.

**Minor in Structures (str)**

This minor is open to all non-civil engineering majors. The program provides a broad coverage of general concepts of structural design as applied to buildings, mechanical systems, and machinery.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 311</td>
<td>Civil Engr Materials &amp; Civil Engr Mats Lab</td>
</tr>
<tr>
<td>CEE 316</td>
<td>Analy of Strctures I</td>
</tr>
<tr>
<td>CEE 411</td>
<td>Dsg-Steel Structures</td>
</tr>
<tr>
<td>CEE 412</td>
<td>Dsgn-Concrete Struc</td>
</tr>
<tr>
<td>CEE 500</td>
<td>Adv Struct Analysis</td>
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<tr>
<td>CEE 501</td>
<td>Struct. Analysis by Computer</td>
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<tr>
<td>CEE 502</td>
<td>Prestressed Concrete</td>
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<tr>
<td>CEE 504</td>
<td>Structural Dynamics</td>
</tr>
<tr>
<td>CEE 505</td>
<td>Plastic Design in Steel</td>
</tr>
<tr>
<td>CEE 507</td>
<td>Masonry Design</td>
</tr>
<tr>
<td>CEE 508</td>
<td>Design Timber Struc</td>
</tr>
<tr>
<td>CEE 524</td>
<td>Foundation Engr</td>
</tr>
<tr>
<td>CEE 540</td>
<td>Composites Design</td>
</tr>
</tbody>
</table>

Total Hours 12

**Minor in Transportation Engineering (tre)**

This minor is open to all non-civil engineering majors. The program provides broad coverage in the planning, design, operations, and management of the transportation system.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 403</td>
<td>Transportation Engr</td>
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</tbody>
</table>

Total Hours 12
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 515</td>
<td>Pavmt Engineering</td>
</tr>
<tr>
<td>CEE 550</td>
<td>Hghwy Geometric Desgn</td>
</tr>
<tr>
<td>CEE 551</td>
<td>Traffic Engineering</td>
</tr>
<tr>
<td>CEE 552</td>
<td>Intelligent Transportation Sys</td>
</tr>
<tr>
<td>CEE 553</td>
<td>Travel Demand Mdng</td>
</tr>
<tr>
<td>CEE 554</td>
<td>Urban Public Tnsptrtn</td>
</tr>
<tr>
<td>CEE 555</td>
<td>Hgwry Traffic Safety</td>
</tr>
<tr>
<td>CEE 558</td>
<td>Traffic Engr Rsrch</td>
</tr>
<tr>
<td>CEE 595</td>
<td>Sel Readings-CEE</td>
</tr>
</tbody>
</table>

Total Hours 12

Courses selected may not be those already required for student's major.

**Minor in Water Resources Engineering (wre)**

This minor is open to all non-civil engineering majors. The program provides broad coverage to the general concepts used in water resources engineering including hydraulics and hydrology issues within economic, optimization, operation, and management frameworks.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 313</td>
<td>Hydraulics</td>
</tr>
<tr>
<td>CEE 333</td>
<td>Water Resources Engr</td>
</tr>
<tr>
<td>CEE 580</td>
<td>Hydrology &amp; Seepage</td>
</tr>
<tr>
<td>CEE 582</td>
<td>Adv Hydraulics</td>
</tr>
<tr>
<td>CEE 595</td>
<td>Sel Readings-CEE</td>
</tr>
</tbody>
</table>

Total Hours 12

Courses selected may not be those already required for student’s major.

**Civil Environmental Engr Courses**

**CEE 101. Intro to Civil Engr. 0-1 Hours**  
INTRODUCTION TO CIVIL ENGINEERING - 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.

**CEE 198. Research&Innvtn Lab. 1.6 Hours**  
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.

**CEE 200. Prof Development Sem. 0 Hours**  
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

**CEE 213. Surveying. 2 Hours**  

**CEE 214. Highway Geometrics. 2 Hours**  
HIGHWAY GEOMETRICS - 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. Prerequisite(s): CEE 213.

**CEE 215L. Surveying Field Prac. 3 Hours**  
SURVEYING FIELD PRACTICE - 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. Prerequisite(s): CEE 214.

**CEE 221L. Civil Computatn Lab. 2 Hours**  
CIVIL COMPUTATION LABORATORY - 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 CADD packages in the civil engineering profession.

**CEE 298. Research&Innvtn Lab. 1-6 Hours**  
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.

**CEE 300. Seminar. 0 Hours**  
SEMINAR - Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required of all civil engineering juniors.

**CEE 310L. Civil Engr Lab. 1 Hour**  
CIVIL ENGINEERING LABORATORY - Civil Engineering Laboratory.

**CEE 311. Civil Engr Materials. 2 Hours**  
CIVIL ENGINEERING MATERIALS - Physical and mechanical properties of construction materials; Portland cement concrete, bituminous materials, wood, ferrous and non-ferrous metals, masonry units; proportioning of concrete mixtures including admixtures. Prerequisite(s): EGM 303. Corequisite(s): CEE 311L.

**CEE 311L. Civil Engr Mtls Lab. 1 Hour**  
CIVIL ENGINEERING MATERIALS LABORATORY - Laboratory experiments in the physical and mechanical properties of construction materials; Portland cement concrete, bituminous materials, wood, ferrous and non-ferrous metals, and masonry units; proportioning of concrete mixtures including admixtures. Corequisite(s): CEE 311.

**CEE 312. Geotechnical Engr. 3 Hours**  
GEOTECHNICAL ENGINEERING - 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; EGM 303. Corequisite(s): CEE 312L; GEO 218.
CEE 312L. Geotechncl Engr Lab. 1 Hour
GEOTECHNICAL ENGINEERING LABORATORY - 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 Hours
HYDRAULICS - 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. Prerequisite(s): EGM 202. Corequisite(s): CEE 313L.

CEE 313L. Hydraulics Lab. 1 Hour
HYDRAULICS LABORATORY - Laboratory experiments and problems associated with CEE 313. Corequisite(s): CEE 313.

CEE 316. Analy of Structres I. 3 Hours
ANALYSIS OF STRUCTURES I - Elastic analysis of structures; deflection, moment-area theorems; conjugate-beam; virtual work influence lines; analysis of indeterminate structures using force methods; theories of failure, stiffness matrices, and use of software to analyze structures. Prerequisite(s): EGM 303.

CEE 317. Analy of Structs ll. 3 Hours
ANALYSIS OF STRUCTURES II - 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. Departmental elective. Prerequisite(s): CEE 316.

CEE 333. Water Resources Engr. 3 Hours
WATER RESOURCES ENGINEERING - Integrated study of the principles of water movement and management. Focus areas include hydrology, water distribution, storm water management, and waste water collection. Second semester, each year. Prerequisite(s): CEE 313.

CEE 390. Envr Pollutn Cntrl. 3 Hours
ENVIRONMENTAL POLLUTION CONTROL - 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. Prerequisite(s): Some knowledge of chemistry.

CEE 390. Research&Invtn Lab. 1-6 Hours
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.

CEE 400. Prof Developmnt Sem. 0 Hours
PROFESSIONAL DEVELOPMENT SEMINAR - Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required of all civil engineering seniors.

CEE 403. Transportation Engr. 3 Hours
TRANSPORTATION ENGINEERING - Fundamentals of transportation engineering, including design, construction, maintenance, and economics of transportation facilities. Design of pavement structures and drainage systems. Prerequisite(s): CEE 214.

CEE 408. Seminar. 0 Hours
SEMINAR - Seminar in Civil & Environmental Engineering.

CEE 411. Dsgn-Steel Structures. 3 Hours
DESIGN OF STEEL STRUCTURES - Design and behavior of structural steel connections, columns, beams, and beams subjected to tension, compression, bending, shear, torsion, and composite action. Second semester, each year. Prerequisite(s): CEE 316.

CEE 412. Dsgn-Concrete Struc. 3 Hours
DESIGN OF CONCRETE STRUCTURES - Design and behavior of reinforced concrete slabs, beams, columns, walls, and footings subjected to tension, compression, bending, shear, and torsion. First semester, each year. Prerequisite(s): CEE 311, CEE 316.

CEE 420. Engineering Economics. 1 Hour
ENGINEERING ECONOMICS - Basic principles and techniques of economic analysis of engineering projects. Prerequisite(s): MTH 169.

CEE 421. Construction Engr. 3 Hours
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.

CEE 422. Dsgn Constr Pj Mgt. 3 Hours
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.

CEE 425. Civil Engr Systems. 3 Hours
CIVIL ENGINEERING SYSTEMS - Analysis and evaluation of civil engineering systems using operations research tools including systems modeling, optimization and probability, and statistics. Civil engineering systems will also be examined from an economic perspective. Prerequisite(s): Junior or senior status.

CEE 434. Water & Waste Engr. 3 Hours
WATER AND WASTEWATER ENGINEERING - Problems of water pollution; development and design of public water supply and waste water treatment systems; legal, political, ethical, and moral considerations. First term, each year. Prerequisite(s): CHM 124. Corequisite(s): CEE 313, CEE 434L.

CEE 434L. Watr&Waste Engr Lab. 1 Hour
WATER AND WASTEWATER ENGINEERING LABORATORY - Laboratory exercises, demonstrations, and design problems associated with water and wastewater engineering. First semester, each year. Corequisite(s): CEE 434.
CEE 450. Civil Engr Design. 3 Hours
CIVIL ENGINEERING DESIGN - Group design of complete projects, drawing on the knowledge acquired in a spectrum of civil engineering subjects. Second semester, each year. Prerequisite(s): CEE 312, CEE 333, CEE 403, CEE 411, CEE 412, CEE 434.

CEE 463. Hazard Waste Treatmnt. 3 Hours
HAZARDOUS WASTE TREATMENT - The fundamental principles of the design and operation of hazardous waste control and hazardous substances remediation processes. Hazardous waste regulations, risk assessment, and management. Department Elective. Prerequisite(s): CHM 124.

CEE 493. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

CEE 494. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): CEE 493.

CEE 498. Resrch&Innov Lab. 1-6 Hours

CEE 499. Special Problems. 1-6 Hours
SPECIAL PROBLEMS IN CIVIL ENGINEERING - Particular assignments to be arranged and approved by chairperson of the department. Departmental elective.

Engineering Mechanics Courses

EGM 202. Dynamics. 3 Hours
DYNAMICS - Kinematics, including translation, rotation, plane motion, and relative motion; kinetics of particles and bodies by the methods of force-mass-acceleration, work-energy, and impulse-momentum. Each semester, each year. Prerequisite(s): EGR 201.

EGM 303. Mechanics II. 3 Hours
MECHANICS II - The study of stresses, strains, and deflections in tension, compression, shear, flexure, and torsion; shear and moment diagrams; analysis of stresses and strains at a point; Mohr’s circle; analysis of columns. Each semester, each year. Prerequisite(s): EGR 201.

EGM 304. Adv Strength of Mtls. 3 Hours
ADVANCED STRENGTH OF MATERIALS - 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. First and second terms each year. Prerequisite(s): EGM 303.

EGM 499. Special Problems. 1-6 Hours
SPECIAL PROBLEMS IN ENGINEERING MECHANICS - Particular assignments to be arranged and approved by chairperson of the department.

Electrical and Computer Engineering

Majors:
- Bachelor of Electrical Engineering
- Bachelor of Science, Computer Engineering

Concentrations:
- Electrical Energy Systems
- Electro-Optics
- Robotics

Minors:
- Computer Systems
- Signals and Systems

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. The electrical and computer engineering department offers an accelerated 5 year B.S. - M.S. program, where students completing their baccalaureate degree can attain their Master of Science in Electrical Engineering within one additional year. The department also offers an undergraduate concentration in electro-optics, in collaboration with the Physics Department and the Electro-Optics Program. An Undergraduate concentration in Robotics is available for both Electrical and Computer Engineering majors beginning in Fall 2011. A new undergraduate concentration in Electrical Engineering Systems is also available beginning in Fall 2012.

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, attendance 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, attendance 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 the integration of hardware and software in systems 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.

Faculty
Guru Subramanyam, Chairperson

Professors Emeriti: Evers, Kee, Rogers, Scarpino, Thiele, Williamson
Professors: Asari, Banerjee, Chatterjee, Duncan, Hardie, Haus, Moon, Sarangan, Subramanyam, Vorontsov, Weber, Zhan
Associate Professors: Daniels, Guliants, Loomis, Ordonez, Penno, Taha, Zhan
Assistant Professors: Balster, Hirakawa
Adjunct Professors: Barrera, Malas, Coutu

Bachelor of Electrical Engineering (ele)

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<tr>
<th>Course</th>
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Bachelor of Science in Computer Engineering (cpe)

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Total Hours: 137

1 Select from list approved by the Department of Electrical and Computer Engineering.

Electrical Energy Systems Concentration (EES)

The Electrical Energy Systems Concentration will prepare our Electrical and Computer Engineering students in all aspects of Electrical Energy Systems including generation, transmission, distribution, utilization, storage, as well as enabling technologies for the smart grid.

Required ECE courses:

- ECE 316 Intro Elec Enrgy Sys 3
- or ECE 499 Special Problems
- ECE 414 Electromech Systems 3
- ECE 471 Pwr Sys Smart Grid 3
- Select one course from:
  - ECE 472 Smart Grid Tech 3

Total Hours: 12

Concentration in Electro-Optics (eop)

The departments of Electrical & Computer Engineering and Physics, with the support of the Electro-Optics Graduate Program at University of Dayton, offers an undergraduate concentration in Electro-Optics. This multidisciplinary concentration is open to Electrical Engineering, Computer Engineering and Physics undergraduates with appropriate prerequisite background. This concentration will enable students to pursue new coop opportunities and possible careers in photonics, and better prepare students to pursue new coop opportunities and possible careers in photonics and better prepare students who wish to pursue graduate degrees in the area of optics. All the courses listed below are approved as free technical electives for ECE undergraduate students.

- ECE 443 Intro-Electro Optics 3
- or PHY 404 Physical Optics 3
- Select two courses from:
  - EOP 501 Geometric Optics 6
EOP 502  Optic Radtn&Matter
EOP 505  Introductn-Lasers
EOP 506/ECE  Electro-Optc Dev&Sys
      573
EOP 513/ECE  Lin Sys&Fourier Opt
      572
EOP 514/ECE  Guided-Wave Optics
      574

Total Hours  12

Concentration in Robotics (rob)  15

Robotics (CPE Majors)
ECE 415  Control Systems  3
ECE 416  Intro to Robotics  3
ECE 447  Digitl cntrl Systms  3
Select two courses from:  6
CPS 480  Artificl Intellgnce
ECE 414  Electromech Systems
ECE 444  Adv Digital Design
ECE 445  Signal Processing
MEE 321  Theory of Machines
MEE 434  Mechatronics
MEE 438  Robotics&Flexble Manf

Robotics (ELE Majors)
ECE 416  Intro to Robotics  3
ECE 447  Digitl cntrl Systms  3
Select two courses from:  6
CPS 480  Artificl Intellgnce
ECE 414  Electromech Systems
ECE 444  Adv Digital Design
ECE 445  Signal Processing
MEE 321  Theory of Machines
MEE 434  Mechatronics
MEE 438  Robotics&Flexble Manf

Minor in Computer Systems (cos)  16

This minor is open to chemical, civil, and mechanical engineering majors, and other students with appropriate prerequisite background who receive permission from the ECE Department Chair. The program builds strength in the area of computer systems and digital design, with emphasis on computer hardware.

Computer Systems (non-MEE majors)
CPS 150  Algorithm&Progrm I  4
or ECE 444  Adv Digital Design
ECE 201L  Circuit Anlys Lab  1
ECE 215  Intro-Digtl Sysms  4
& 215L  and Digital Systems Lab
ECE 314  Fund-Comptr Arch  4
& 314L  and Fund-Comptr Arch Lab
EGR 203  Electrcl & Electrc Crt  3

Computer Systems (MEE majors)
CPS 150  Algorithm&Progrm I (or equivalent)  4
ECE 215  Intro-Digtl Sysms  4
& 215L  and Digital Systems Lab

Minor in Signals and Systems (sas)  15

This minor is open to chemical, civil, and mechanical engineering majors, and other students with appropriate prerequisite background who receive permission from the ECE Department Chair. The program provides the essential background in signals and systems theory including continuous and discrete systems. An advanced course is selected by the students to allow them to specialize in controls or signal processing.

ECE 201L  Circuit Anlys Lab  1
ECE 203  Intro Matlab Prog  1
ECE 303  Signals & Sytems  4
& 303L  and Signals & Systems Lab
ECE 334  Discrete Singnl&Sys  3
or ECE 445  Signal Processing
EGR 203  Electrcl & Electrc Crt  3

Total Hours  15

Courses

ECE 101. Intro to Elec Engr. 0 Hours
INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING - Introduction to electrical and computer engineering faculty, facilities, and curriculum. Career opportunities in electrical and computer engineering and areas of specialization are discussed.

ECE 198. Multidspy Res&Innv Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

ECE 200. Prof Development Sem. 0 Hours
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

ECE 201L. Circuit Anlys Lab. 1 Hour
CIRCUIT ANALYSIS LABORATORY - Laboratory course stressing experimental techniques, laboratory reporting, safety, and instrumentation. Experimental investigation of basic steady-state and transient circuits. Corequisite(s): ECE 201 or EGR 203.
ECE 203. Intro Matlab Prog. 1 Hour
INTRODUCTION TO MATLAB PROGRAMMING MATLAB - system and development environment, vector and matrix operations using MATLAB, linear algebra and calculus using MATLAB, MATLAB graphics, flow control, symbolic math toolbox. Prerequisite(s): (CPS 132 or CPS 150) or equivalent.

ECE 204. Electronic Devices. 3 Hours
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): EGR 203. Corequisite(s): ECE 204L.

ECE 204L. Electrnc Devices Lab. 1 Hour
ELECTRONIC DEVICES LABORATORY - Laboratory investigation of electronic devices: diodes, bipolar junction transistors, field-effect transistors and operational amplifiers. Corequisite(s): ECE 204.

ECE 215. Intro-Digtl Sysyms. 3 Hours
INTRODUCTION TO DIGITAL SYSTEMS - 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): EGR 203. Corequisite(s): ECE 215L.

ECE 215L. Digital Systems Lab. 1 Hour
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, ECE 201L. Corequisite(s): ECE 215.

ECE 298. Mltdspy Res&Innv Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

ECE 303. Signals & Sytems. 3 Hours
SIGNALS AND SYSTEMS - 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 204; MTH 218. Corequisite(s): ECE 303L.

ECE 303L. Signals & Systems Lab. 1 Hour
SIGNALS AND SYSTEMS LABORATORY - 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 204. Corequisite(s): ECE 303.

ECE 304. Electrnc Systems. 3 Hours
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 303. Corequisite(s): ECE 304L.

ECE 304L. Electrnc Systems Lab. 1 Hour
ELECTRONIC SYSTEMS LABORATORY - Design, construction and verification of multistage amplifiers, differential amplifiers, feedback amplifiers, passive and active filters, and oscillators. Prerequisite(s): ECE 303. Corequisite(s): ECE 304.

ECE 314. Fund-Comptr Arch. 3 Hours
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): CPS 150; ECE 215. Corequisite(s): ECE 314L.

ECE 314L. Fund-Comptr Arch Lab. 1 Hour
FUNDAMENTALS OF COMPUTER ARCHITECTURE LABORATORY - Laboratory investigation of digital computer architecture covered in ECE 314. Computer sub-systems such as central processing units, control units, I/O units, and hardware/software interfaces will be experimentally considered. Simulation and implementation will be used to study applications and practical problems. Prerequisite(s): ECE 215. Corequisite(s): ECE 314.

ECE 316. Intro Elec Enrgy Sys. 3 Hours
INTRODUCTION TO ELECTRICAL ENERGY SYSTEMS A - broad introduction to electric energy concepts. Generation, transmission, distribution, and utilization of electric energy. Renewable energy, three phase systems, transformers, power electronics, motors and generators. Contemporary topics. Prerequisite(s): EGR 203 or equivalent.

ECE 332. Electromagnetics. 3 Hours
ELECTROMAGNETICS - Study of vector calculus, electro- and magnetostatics, Maxwell's equations, and electromagnetic plane waves and their reflection and transmission from discontinuities. Prerequisite(s): PHY 232.

ECE 333. Appl Electromagnets. 3 Hours
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 Sigtns&Sys. 3 Hours
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 303.
ECE 340. Engr Prbty&Rndm Proc. 3 Hours
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 303; MTH 218.

ECE 398. Multidisc Res&Innv Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

ECE 401. Commun Sys Lab. 3 Hours
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 304, 340. Corequisite(s): ECE 401L.

ECE 401L. Commun Sys Lab. 1 Hour
COMMUNICATION SYSTEMS LABORATORY - Design, fabrication, and laboratory investigation of modulators, detectors, filters, and associated communication components and systems. Prerequisite(s): ECE 304. Corequisite(s): ECE 401.

ECE 414. Electromech. 3 Hours
ELECTROMECHANICAL DEVICES - Properties and theory of electromechanical devices: nonlinear electro-magnetic actuators; rotating machine analysis; field and circuit concepts and direct current, synchronous, and induction machines: special-purpose machines and fractional horsepower machines. Prerequisite(s): ECE 316 or equivalent.

ECE 415. Control Systems. 3 Hours
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 303.

ECE 416. Intro to Robotics. 3 Hours
INTRODUCTION TO INDUSTRIAL ROBOTIC MANIPULATORS - Topics include homogeneous transformations, direct and inverse kinematics, trajectory generation, and selected topics of robot vision. Prerequisite(s): ECE 303.

ECE 431L. Multidisc. Des I. 1 Hour
MULTIDISCIPLINARY 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 304, ECE 314.

ECE 432L. Multidisc. Des II. 3 Hours
MULTIDISCIPLINARY 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, ECE 431L, ECE 444; ELE majors: ECE 340, ECE 431L, (ECE 401 or ECE 415).

ECE 433. Proj Mangmt&Innovtn. 1 Hour
PROJECT MANAGEMENT AND INNOVATION - Introduces students and teams to project management, entrepreneurship, and innovation. Topics include project management, cost estimating, time value of money, patent law, marketing, finance, and business plan development. Prerequisite(s): Junior status.

ECE 440. Phycal Elec. 3 Hours
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. Intgrtd Circ & Elec. 3 Hours
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 304.

ECE 442. Engr Electromagnetcs. 3 Hours
ENGINEERING ELECTROMAGNETICS - 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.

ECE 443. Intro-Electro Optics. 3 Hours
INTRODUCTION TO ELECTRO-OPTICS - Introductory overview of electro-optics starting with Maxwell’s equations and leading to lasers, holography, and other timely applications. Prerequisite(s): ECE 332.

ECE 444. Adv Digital Design. 3 Hours
ADVANCED DIGITAL DESIGN - 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.

ECE 445. Signal Processing. 3 Hours
SIGNAL PROCESSING - 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.
ECE 446. Microelectronic Sys Ds. 3 Hours
MICROELECTRONIC SYSTEMS DESIGN - 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 415; ECE 334 or equivalent.

ECE 447. Digitl contrl Systms. 3 Hours
DIGITAL CONTROL SYSTEMS - 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.

ECE 448. Fibr Optc Communictn. 3 Hours
FIBER OPTIC COMMUNICATIONS - 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.

ECE 449. Comput Systms Engr. 3 Hours
COMPUTER SYSTEMS ENGINEERING - 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).

ECE 450L. Projects Laboratory. 1-3 Hours
PROJECTS LABORATORY - Project-oriented laboratory applying engineering skills in the design, development, and demonstration of electrical and electronic systems. Prerequisite(s): Permission of project advisor.

ECE 471. Pwr Sys Smart Grid. 3 Hours
CONTEMPORARY POWER SYSTEMS AND THE SMART GRID - Introduction to electrical power systems; generation, transmission and utilization; power system analysis; power system control; energy management; and an introduction to smart grid technologies. Prerequisite(s): ECE 316 or equivalent.

ECE 472. Smart Grid Tech. 3 Hours
SMART GRID TECHNOLOGIES - An introductory study of enabling technologies and energy issues necessary for full realization of the Smart Grid. Course topics vary. This course can be taken multiple times. Prerequisite(s): ECE 471 or equivalent.

ECE 493. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): ECE 493.

ECE 494. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): ECE 493.

ECE 498. Mltdspy Res&Innv Lab. 1-6 Hours
MULTIDISCIPLINARY 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.

ECE 499. Special Problems. 1-6 Hours
SPECIAL PROBLEMS IN ELECTRICAL AND COMPUTER ENGINEERING - Particular assignments to be arranged and approved by the department chairperson.

Engineering Management

Minors:
- Engineering Management
- Operations Engineering

Minor in Engineering Management (enm)
This twelve credit hour minor is open to all engineering and engineering technology majors. Completion of this minor will provide the student with understanding of basic concepts relevant to the management of engineering operations. Students who anticipate moving from technical to managerial positions during their careers may wish to consider this minor.

ENM 505  Mgt of Engr Systs
ENM 530  Engineering Economy
ENM 582  Engr Organizational Dev
ISE 430  Engineering Economy
ISE 500  Prob & Stat for Engrs
ISE 539  Sys Engr/Projct Mgmt
ISE 560  Quality Assurance
ISE 565  Reliability Engr I
ISE 582  Engr Organizational Dev
ISE 590  Prob & Stat Egrs
ISE 421  Intro to OPS Rsrch
ISE 455  System Dynamics
ISE 460  Quality Assurance
ISE 465  Reliability & Maintainbly
MSC 521  Intro to OPS Rsrch
MSC 555  System Dynamics I
MSC 572  System Simulation

Total Hours 12

1 ENM 505 (or ISE 300 or MTH 367) is a prerequisite.

Minor in Operations Engineering (ope)
This twelve hour minor is open to all engineering and engineering technology majors. Completion of this minor will provide the student with a strong foundation in the analytical tools needed to plan, design, optimize, and manage complex engineering operations. Students who...
anticipate moving into problem-solving and decision-support roles during their engineering careers may wish to consider this minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MTH 367</td>
<td>Statistical Meth I</td>
<td>3</td>
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<tr>
<td>ENM 500 or ISE 300</td>
<td>Prob &amp; Stat for Engrs</td>
<td>3</td>
</tr>
<tr>
<td>ISE 421 or MSC 521</td>
<td>Intro to OPS Rsrch ¹</td>
<td>3</td>
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<tr>
<td>Select one course from:</td>
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<tr>
<td>ENM 560</td>
<td>Quality Assurance ²</td>
<td>3</td>
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<tr>
<td>ENM 561</td>
<td>Dsgn &amp; Analy Expr</td>
<td>3</td>
</tr>
<tr>
<td>ENM 565</td>
<td>Reliability Engr I</td>
<td>3</td>
</tr>
<tr>
<td>ISE 460</td>
<td>Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>MSC 572</td>
<td>System Simulation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

¹ ENM 500 (or ISE 300 or MTH 367) is a corequisite.
² ENM 500 (or ISE 300 or MTH 367) is a prerequisite.

### Engineering Technology

**Majors:**

- Bachelor of Science, Electronic and Computer Engineering Technology
- Bachelor of Science, Industrial Engineering Technology
- Bachelor of Science, Global Manufacturing Systems Engineering Technology
- Bachelor of Science, Mechanical Engineering Technology

**Minors:**

- Electronic and Computer Engineering Technology
- Industrial Engineering Technology
- Quality Assurance
- Global Manufacturing Systems Engineering Technology
- Mechanical Engineering Technology
- Automotive Systems
- Engineering Technology
- Industrial Automation and Applied Robotic Systems
- Integrated Arts and Technology
- Sustainable Manufacturing

The School of Engineering also offers a Bachelor of Science in Engineering Technology. The programs in which the degree is offered are electronic and computer engineering technology, global manufacturing systems engineering technology, industrial 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.

### Electronic and Computer Engineering Technology

The Electronic and Computer Engineering Technology Program (ECT) prepares students for careers in the electronics and computer fields. The ECT curriculum, while including a strong emphasis on computers, centers on applied engineering topics in circuit analysis, analog and digital electronic design, digital communications, digital circuits, microprocessors, software and data acquisition instrumentation. The graduate 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 data 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 Schneider, Interim Chairperson of Department of Engineering Technology
- Professors Emeriti: Farren, Hanneman, Hazen
- Professor: Segalewitz
- Associate Professors: Globig, Schneider

**Bachelor of Science with a major in Electronic and Computer Engineering Technology (ECT)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHM 123 &amp; 123L</td>
<td>General Chemistry and Gen Chemistry Lab</td>
<td>4</td>
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<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
<td>1</td>
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<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
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<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>CMM 113</td>
<td>Interviewing</td>
<td>1</td>
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<tr>
<td>ECT 110</td>
<td>Elec Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ECT 110L</td>
<td>Elec Circuits I Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECT 120</td>
<td>Elec Circuits II</td>
<td>3</td>
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<tr>
<td>ECT 206 &amp; 206L</td>
<td>Electron Devices I and Electr Devices I Lab</td>
<td>4</td>
</tr>
<tr>
<td>ECT 224 &amp; 224L</td>
<td>Digt Compr Fund and Digital Compr Lab</td>
<td>4</td>
</tr>
<tr>
<td>ECT 306 &amp; 306L</td>
<td>Electron Devices II and Elec Devices II Lab</td>
<td>4</td>
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<tr>
<td>ECT 357</td>
<td>Microprocessors I</td>
<td>3</td>
</tr>
<tr>
<td>ECT 358 &amp; 358L</td>
<td>Microprocessors II and Microprocessors II Lab</td>
<td>4</td>
</tr>
</tbody>
</table>
ECT 361  Programming Structrs  3
ECT 362  Concp&Appl-COS  3
ECT 408  Data Acquis&Mermnts  2
ECT 452  Feedback Controls  3
ECT 465  Dgtl Data Communctns  3
ECT 466  Microcmptr Architect  3
ECT 490  Senior Project  3
EGR 103  Engineering Innovatn  2
ENG 100 & ENG 200  Writing Seminar I  6
& Writing Seminar II  1
or ENG 200H  Writing Seminar II  3
HST 103  West and World  3
or HST 198  HST Scholars Sem  2
IET 316  Quantitatv Analysis  3
IET 317  Industrl Econ&Analyss  3
IET 323  Project Management  3
MCT 110L  Tech Drawing & Cad  2
MCT 220  Statics & Dynamics  3
MFG 431  Controls-Ind Auto  3
MTH 137  Calc I with Review  4
MTH 138  Calc I with Review  4
MTH 207  Intro to Statistics  3
PHL 103  Intro To Philosophy  3
PHY 201  General Physics  4
& 201L  and General Physics Lab  3
REL 103  Intro to Religion  3
SET 100  First Year Seminar (2 semesters)  0
SET 101  Enrichment Workshop (2 semesters)  0
SET 153L  Tech Computatn Lab  1
SET 200  Professional Dev Sem  0
SET 200  Professional Dev Sem  0
SET 499  Seminar  1
General Education electives  15
Technical electives  2
Total Hours  131

1 The University’s general reading and writing competency requirements are satisfied by completing ENG 100 and ENG 200, or ENG 200H 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 200H. ENG 200H is a one-semester course which satisfies the University requirement. Students who are placed in ENG 200H do not receive credit for ENG 100 but are free to take elective course work in place of the waived first semester of composition.

2 Select from list approved by the Department of Engineering Technology.

Minor in Electronic and Computer Engineering Technology (ECT)

This minor provides a concentration in the electronic and computer field that will compliment the student’s major program of study. It is open to all engineering technology majors except electronic or computer engineering technology. It is also available for other majors within the University if certain prerequisites have been met.

ECT 120  Elec Circuits II  3
ECT 224  Dgtl Cmpt Fund & 224L  4
& Digital Cmpt Lab

Select one emphasis from: 1,2

Analog Devices Emphasis
ECT 206  Electron Devices I & 206L  6
& Electron Devices II Lab

Microprocessor Emphasis
ECT 357  Microprocessors I
ECT 358  Microprocessors II & 358L  6
& Microprocessors II Lab

Software Emphasis
ECT 361  Programmmng Strctrs
ECT 362  Concp&Appl-COS

Total Hours  13-15

1 Courses cannot be already required for student’s major.

2 Accompanying laboratories are recommended but not required.

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, planning and control of lean processes, human factors, safety, facilities layout design and simulation, economic and financial analysis, statistical process control, management of projects and global technical organizations, cost estimating and cost control, and mathematical decision-making.

Faculty
Scott Schneider, Interim Chairperson of the Department of Engineering Technology
Charlie Edmonson, Program Coordinator
Professors: Edmonson, Summers, Untener
Associate Professors: Blust, Falkowski, Globig
Adjunct Professor: R. Reynolds

Bachelor of Science with a major in Industrial Engineering Technology (let)

CHM 123  General Chemistry & 123L  4
and Gen Chemistry Lab
CMM 110  Group Dec-Making
CMM 111  Inform Public Sp  1
or CMM 112  Persuasive Public Sp
CMM 113  Interviewing
ECT 110  Elec Circuits I & 110L  4
& Elec Circuits I Lab
EGR 103  Engineering Innovatn  2
### Minor in Industrial Engineering Technology (iet)

This minor is open to all majors except industrial engineering technology. The program provides a concentration in the industrial field that will complement the student’s major field of study. All prerequisites and corequisites must be followed.

Choose four courses from: 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IET 230</td>
<td>Work Measurement</td>
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<tr>
<td>IET 317</td>
<td>Industri Econ&amp;Analys</td>
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<tr>
<td>IET 318</td>
<td>Statistcl Proc Contr</td>
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<td>IET 319</td>
<td>Quality Improv Mthds</td>
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<td>IET 320</td>
<td>Quality Assur Technqs</td>
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<tr>
<td>IET 321</td>
<td>Quality Management</td>
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<tr>
<td>IET 332</td>
<td>Facilities Layout Ds</td>
<td></td>
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<tr>
<td>IET 408</td>
<td>Lean Mgt Methods</td>
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<tr>
<td>IET 415</td>
<td>Mgt of Gibal Tch Org</td>
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<tr>
<td>IET 418</td>
<td>Cost Estmting&amp;Control</td>
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<tr>
<td>IET 420</td>
<td>Indstrl&amp;Environ Sfty</td>
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<tr>
<td>IET 435</td>
<td>Human Factors</td>
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#### IET - Human Performance Emphasis 2

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<td>Work Measurement</td>
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<td>IET 415</td>
<td>Mgt of Gibal Tch Org</td>
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<tr>
<td>IET 420</td>
<td>Indstrl&amp;Environ Sfty</td>
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<tr>
<td>IET 435</td>
<td>Human Factors</td>
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#### IET - Production Management Emphasis 3

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<tr>
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<td>Work Measurement</td>
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<tr>
<td>IET 318</td>
<td>Statistcl Proc Contr</td>
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<td>Facilities Layout Ds</td>
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<td>IET 408</td>
<td>Lean Mgt Methods</td>
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<td>IET 418</td>
<td>Cost Estmting&amp;Control</td>
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<tr>
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#### IET - Cost Management Emphasis 4

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<td>IET 415</td>
<td>Mgt of Gibal Tch Org</td>
<td></td>
</tr>
<tr>
<td>IET 418</td>
<td>Cost Estmting&amp;Control</td>
<td></td>
</tr>
</tbody>
</table>

### Minor in Quality Assurance (qua)

This minor is open to all majors. The program provides a concentration in the field of quality control, quality assurance, and quality management. Upon successful completion of this minor, the student will have command of statistical quality tools as well as the breadth of quality management concepts and experience in practical application of the tools. All prerequisites and corequisites must be followed.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IET 318</td>
<td>Statistcl Proc Contr</td>
<td></td>
</tr>
<tr>
<td>IET 320</td>
<td>Quality Assur Technqs</td>
<td></td>
</tr>
<tr>
<td>IET 321</td>
<td>Quality Management</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

---

1 The University’s general reading and writing competency requirements are satisfied by completing ENG 100 and ENG 200, or ENG 200H 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 200H. ENG 200H is a one-semester course which satisfies the University requirement. Students who are placed in ENG 200H do not receive credits for ENG 100 but are free to take elective course work in place of the waived first semester of composition.

2 Select from list approved by the Department of Engineering Technology.
Global Manufacturing Systems Engineering Technology

Today's global economy has increasingly become borderless and is dominated by multi-national companies. This requires tomorrow's engineers to be able to work efficiently in multicultural teams. The Global Manufacturing Systems Engineering Technology program is creating a new type of "global engineer" both answering industry's demand and giving the upcoming engineer a competitive advantage in today's market place.

In the Global Manufacturing Systems Engineering Technology program you will use state-of-the-art technology to plan, design, and implement the tools and machines needed to produce high quality products at competitive prices. Throughout the program you will also apply important concepts of the lean enterprise, global competitiveness, green engineering concepts, and customer satisfaction.

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, hydraulic, and pneumatic automation and 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, plus foreign language and multicultural requirements. 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 Schneider, Interim Chairperson of the Department of Engineering Technology
Robert L. Wolff, Program Coordinator
Professor Emeritus: Simon
Professors: Summers, Untener, Wolff
Associate Professors: Blust, Falkowski
Assistant Professor: Kozak
Adjunct Professor: Wendeln

Bachelor of Science with a major in Global Manufacturing Systems Engineering Technology (gmt)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123 &amp; 123L</td>
<td>General Chemistry and Gen Chemistry Lab</td>
<td>4</td>
</tr>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td></td>
</tr>
<tr>
<td>CMM 113</td>
<td>Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>ECT 110 &amp; 110L</td>
<td>Electrc Circuits I and Elec Circuits I Lab</td>
<td>4</td>
</tr>
<tr>
<td>ECT 408</td>
<td>Data Acquis&amp;Msrmnts</td>
<td>2</td>
</tr>
<tr>
<td>EGR 103</td>
<td>Engineering Innovtn</td>
<td>2</td>
</tr>
<tr>
<td>ENG 100 &amp; ENG 200</td>
<td>Writing Seminar I and Writing Seminar II</td>
<td>6</td>
</tr>
<tr>
<td>MTH 137</td>
<td>Cacul I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 138</td>
<td>Cacul I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 207</td>
<td>Intro to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHY 201 &amp; 201L</td>
<td>General Physics and General Physics Lab</td>
<td>4</td>
</tr>
<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
<td>3</td>
</tr>
<tr>
<td>SET 100 &amp; 101</td>
<td>First Year Seminar (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>SET 153L</td>
<td>Tech Computatn Lab</td>
<td>1</td>
</tr>
<tr>
<td>SET 200</td>
<td>Professional Dev Sem (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>SET 499</td>
<td>Seminar</td>
<td>1</td>
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<td>General Education electives</td>
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<td>Language requirements</td>
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<tr>
<td>Technical elective</td>
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<td>3</td>
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</tbody>
</table>

Total Hours: 133
The University’s general reading and writing competency requirements are satisfied by completing ENG 100 and ENG 200 or ENG 200H 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 200H. ENG 200H is a one-semester course which satisfies the University requirement. Students who are placed in ENG 200H do not receive credit for ENG 100 but are free to take elective course work in place of the waived first semester of composition.

Students who have no or limited experience in a foreign language will be required to complete a two-course sequence either LNG 101/LNG 141 (6 sem. hours) depending on their beginning proficiency. Students entering the University of Dayton and enrolled in the program will fulfill this requirement. Students passing the proficiency examination of one or both foreign language course requirements will be required to complete additional Technical electives to fulfill program credits requirements.

Select from list approved by the Department of Engineering Technology.

**Minor in Global Manufacturing Systems Engineering Technology (gmt)**

This minor is open to all engineering technology majors except manufacturing. The program provides a concentration in manufacturing that will complement the student’s major field of study. All prerequisites and corequisites must be followed.

Select four courses from:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFG 204</td>
<td>Materials &amp; Processes</td>
<td>1</td>
</tr>
<tr>
<td>&amp; 204L</td>
<td>and Matrls &amp; Processes Lab</td>
<td>1</td>
</tr>
<tr>
<td>MFG 240</td>
<td>Manufacturing Design</td>
<td>1</td>
</tr>
<tr>
<td>MFG 424</td>
<td>Robotics</td>
<td>3</td>
</tr>
<tr>
<td>MFG 427</td>
<td>Cim and Global MFG</td>
<td>3</td>
</tr>
<tr>
<td>MFG 431</td>
<td>Controls-Ind Auto</td>
<td>3</td>
</tr>
<tr>
<td>MFG 432</td>
<td>Mtrls &amp; Proc Plastics</td>
<td>3</td>
</tr>
<tr>
<td>MFG 434</td>
<td>Robotics &amp; CNC</td>
<td>3</td>
</tr>
<tr>
<td>MFG 438</td>
<td>Sustnble Mfg &amp; Prd Des</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 12

Courses selected may not be those already required for student’s major.

**Mechanical Engineering Technology**

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 of 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 Schneider, Interim Chairperson of Department of Engineering Technology  
David H. Myszka, Program Coordinator  
Professor Emeritus: Mott  
Professors: Edmonson, Myszka, Untener, Wolff  
Associate Professors: Blust, Falkowski  
Assistant Professor: Kozak

**Bachelor of Science with a major in Mechanical Engineering Technology (mct)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 123L</td>
<td>and Gen Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
<td>1</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td>1</td>
</tr>
<tr>
<td>CMM 113</td>
<td>Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>ECT 110</td>
<td>Electrc Circuits I &amp; 110L</td>
<td>4</td>
</tr>
<tr>
<td>ECT 408</td>
<td>Data Acquis &amp; Msrmnts</td>
<td>2</td>
</tr>
<tr>
<td>EGR 103</td>
<td>Engineering Innovatn</td>
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<tr>
<td>ENG 100</td>
<td>Writing Seminar I</td>
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<td>&amp; ENG 200</td>
<td>Writing Seminar II</td>
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<td>HST 103</td>
<td>West and World</td>
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<td>IET 316</td>
<td>Quantitav Analysis</td>
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<tr>
<td>IET 317</td>
<td>Industri Econ &amp; Analy</td>
<td>3</td>
</tr>
<tr>
<td>IET 323</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MCT 110L</td>
<td>Tech Drawing &amp; Cad</td>
<td>2</td>
</tr>
<tr>
<td>MCT 111L</td>
<td>Intro-Design Lab</td>
<td>2</td>
</tr>
<tr>
<td>MCT 220</td>
<td>Statics &amp; Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MCT 221</td>
<td>Strength of Matrls</td>
<td>3</td>
</tr>
<tr>
<td>MCT 231</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MCT 313</td>
<td>Industrial Mechanism</td>
<td>3</td>
</tr>
<tr>
<td>MCT 317</td>
<td>Machine Dynamics</td>
<td>3</td>
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<tr>
<td>MCT 330</td>
<td>Design-Machine Elemnts</td>
<td>3</td>
</tr>
<tr>
<td>MCT 336</td>
<td>Fluid Power</td>
<td>4</td>
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<tr>
<td>&amp; 336L</td>
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<td>MCT 342</td>
<td>Thermodynamics</td>
<td>3</td>
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<tr>
<td>MCT 490</td>
<td>MCT Senior Project</td>
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<td>MFG 108L</td>
<td>Manufct Proc Lab</td>
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<td>MFG 204</td>
<td>Materials &amp; Processes</td>
<td>4</td>
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<tr>
<td>&amp; 204L</td>
<td>and Matrls &amp; Processes Lab</td>
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<tr>
<td>MFG 206L</td>
<td>Dimensnl Metrology</td>
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<tr>
<td>MFG 208L</td>
<td>Geom Dimns &amp; Tolrc Lb</td>
<td>1</td>
</tr>
<tr>
<td>MFG 240</td>
<td>Manufacturing Design</td>
<td>3</td>
</tr>
<tr>
<td>MFG 431</td>
<td>Controls-Ind Auto</td>
<td>3</td>
</tr>
<tr>
<td>MTH 137</td>
<td>Calc I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 138</td>
<td>Calc I with Review</td>
<td>4</td>
</tr>
<tr>
<td>MTH 207</td>
<td>Intro to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>Intro To Philosophy</td>
<td>3</td>
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<tr>
<td>PHY 201</td>
<td>General Physics</td>
<td>4</td>
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<tr>
<td>&amp; 201L</td>
<td>and General Physics Lab</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>PHY 202 &amp; 202L</td>
<td>General Physics and General Physics Lab</td>
<td>4</td>
</tr>
<tr>
<td>REL 103</td>
<td>Intro to Religion</td>
<td>3</td>
</tr>
<tr>
<td>SET 100</td>
<td>First Year Seminar (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>SET 101</td>
<td>Enrichment Workshop (2 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>SET 153L</td>
<td>Tech Computatn Lab</td>
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</tr>
<tr>
<td>SET 200</td>
<td>Professional Dev Sem (2 semesters)</td>
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<td>SET 499</td>
<td>Seminar</td>
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<td></td>
<td>Total Hours</td>
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</tbody>
</table>

1. The University’s general reading and writing competency requirements are satisfied by completing ENG 100 and ENG 200 or ENG 200H 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 200H. ENG 200H is a one-semester course which satisfies the University requirement. Students who are placed in ENG 200H do not receive credit for ENG 100 but are free to take elective course work in place of the waived first semester of composition.

2. Select from list approved by the Department of Engineering Technology.

**Minor in Mechanical Engineering Technology (mct)**

This minor is open to all engineering technology majors except mechanical. The program provides a concentration in the mechanical field that will complement the student’s major field of study. All prerequisites and corequisites must be followed.

Select four courses from: 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCT 221</td>
<td>Strength of Matrls</td>
<td></td>
</tr>
<tr>
<td>MCT 231</td>
<td>Fluid Mechanics</td>
<td></td>
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<tr>
<td>MCT 313</td>
<td>Industrial Mechanism</td>
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<tr>
<td>MCT 330</td>
<td>Design-Machine Elmnts</td>
<td></td>
</tr>
<tr>
<td>MCT 336</td>
<td>Fluid Power &amp; Fluid Power Lab</td>
<td></td>
</tr>
<tr>
<td>MCT 342</td>
<td>Thermodynamics</td>
<td></td>
</tr>
<tr>
<td>MCT 423</td>
<td>Product Development</td>
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<td>MCT 430</td>
<td>Des-Fluid Power Sys</td>
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<td>MCT 432</td>
<td>Heat Power</td>
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<tr>
<td>MCT 438</td>
<td>Heat Transfer</td>
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<tr>
<td>MCT 440</td>
<td>Applied Vibrations</td>
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<tr>
<td>MCT 445</td>
<td>Expermntl Mechanics &amp; 445L</td>
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<tr>
<td>MCT 446</td>
<td>Finite Elemnt Moding</td>
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<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

1. Courses selected may not be those already required for student’s major.

**Minor in Automotive Systems (ast)**

This minor is open to all engineering technology majors. It is also available for other majors within the University if certain prerequisites have been met. The program provides a concentration in the automotive field that will complement the student’s major program of study.

Select two courses from: 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<td>Autmv Elec&amp;Sfty Sys</td>
<td>3</td>
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<tr>
<td>MCT 456</td>
<td>Autmv Pwrtn&amp;Chs Sys</td>
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</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Courses cannot be required by student’s major.

**Minor in Engineering Technology (egt)**

This minor is open to all majors in the College of Arts & Sciences, the School of Business Administration, and the School of Education and Allied Professions with the appropriate prerequisite background and approval of the Engineering Technology Department Chair. The program introduces the principles of applied engineering and complements many majors at the University.

Select one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECT 110</td>
<td>Electrcl Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IET 323</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MCT 110L</td>
<td>Tech Drawing &amp; Cad</td>
<td>2</td>
</tr>
<tr>
<td>MFG 204</td>
<td>Materials&amp;Processes</td>
<td>4</td>
</tr>
<tr>
<td>MFG 204L</td>
<td>Matrls&amp;Proc Plastics</td>
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Select one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECT 120</td>
<td>Elecr Circuits II</td>
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</tr>
<tr>
<td>ECT 224</td>
<td>Digtl Comptr Fund</td>
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<td>ECT 361</td>
<td>Programming Strctrs</td>
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<td>IET 317</td>
<td>Industrl Econ&amp;Analys</td>
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<tr>
<td>IET 408</td>
<td>Lean Mgt Methods</td>
<td></td>
</tr>
<tr>
<td>IET 415</td>
<td>Mgt of Gibal Tch Org</td>
<td></td>
</tr>
<tr>
<td>IET 435</td>
<td>Human Factors</td>
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</tr>
<tr>
<td>MCT 220</td>
<td>Statics &amp; Dynamics</td>
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<tr>
<td>MCT 231</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>MFG 427</td>
<td>Cim and Global MFG</td>
<td></td>
</tr>
<tr>
<td>MFG 432</td>
<td>Mtrls&amp;Proc Plastics</td>
<td></td>
</tr>
<tr>
<td>MFG 434</td>
<td>Robotics &amp; CNC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

1. Prerequisites: SET 153L or equivalent competency and MTH 137 or equivalent competency.

**Minor in Industrial Automation and Applied Robotic Systems (ARS)**

This minor is open to all majors in the School of Engineering. The program provides a concentration in the industrial automation and applied robotic systems field that will complement the student’s major field of study. All prerequisites and corequisites must be followed.
Industrial Automation and Applied Robotic Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECT 452</td>
<td>Feedback Controls</td>
<td>3</td>
</tr>
<tr>
<td>MFG 424</td>
<td>Robotics</td>
<td>3</td>
</tr>
<tr>
<td>MFG 431</td>
<td>Controls-Ind Auto</td>
<td>3</td>
</tr>
<tr>
<td>MFG 434</td>
<td>Robotics &amp; CNC</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

1. If the minor’s required courses are already required by the student’s major, the student may select ECT 224/ECT 224L, MCT 313, and/or MCT 317 to complete a total of at least twelve semester hours. Students in Engineering programs may not select courses with content similar to courses offered in their major.

MINOR IN INTEGRATED ARTS AND TECHNOLOGY (IAT)

The Integrated Arts and Technology minor allows students to connect their aptitude for technical discipline with their passion for the arts. Students select one arts program (graphic design, music, or theatre) and take at least 12 credits of coursework in that program. To put their knowledge to work in a practical and beneficial setting, students will also complete a service-learning project related to their arts program, which may provide academic credit.

This minor is open to all students enrolled in School of Engineering programs. All prerequisites and corequisites must be followed.

Graphic Design Emphasis

Select four courses from: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 344</td>
<td>Multid Media Dsgn/Prd I</td>
</tr>
<tr>
<td>CMM 444</td>
<td>Multimedia Dsn&amp;Prd II</td>
</tr>
<tr>
<td>SET 400</td>
<td>Special Topics</td>
</tr>
<tr>
<td>VAD 215</td>
<td>Comput Appl- Desgn</td>
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<td>VAD 220</td>
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<td>VAD 310</td>
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<td>VAD 320</td>
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<td>VAD 344</td>
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<td>VAD 351</td>
<td>Motion Design</td>
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<td>VAD 360</td>
<td>Web Design</td>
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<td>VAP 340</td>
<td>Digital Processes II</td>
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<td>VAR 345</td>
<td>Cmpt Modl&amp;Anmtn I</td>
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<td>VAR 440</td>
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<td>VAR 445</td>
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Total Hours: 12

Technical Music Emphasis

Select four courses from: 12

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<tr>
<th>Course</th>
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<tr>
<td>CMM 340</td>
<td>Fund of Broadcasting</td>
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<tr>
<td>CMM 341</td>
<td>Audio Production</td>
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<tr>
<td>MUS 205</td>
<td>Mus, Instrument &amp; Tech</td>
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<tr>
<td>MUS 223</td>
<td>Intro Music Tech</td>
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<td>MUS 323</td>
<td>Rec &amp; Digital Media</td>
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<td>SET 400</td>
<td>Special Topics</td>
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Total Hours: 12

Television and Stage Production Emphasis

Select four courses from: 12

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<tr>
<td>CMM 341</td>
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<td>CMM 342</td>
<td>Fund-Video Productn</td>
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<td>CMM 442</td>
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<td>SET 400</td>
<td>Special Topics</td>
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<td>THR 203</td>
<td>Technical Productn</td>
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<td>THR 305</td>
<td>Theatre Stagecraft</td>
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<tr>
<td>THR 307</td>
<td>Theatre Lighting</td>
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Total Hours: 12

Minor in Sustainable Manufacturing (smf)

This minor is open to all majors in the School of Engineering, except Global Manufacturing Systems Engineering Technology (GEM). The program provides a concentration in sustainable manufacturing that will complement the student’s major field of study. All prerequisites and corequisites must be followed.

Sustainable Manufacturing

Select four courses from: 12

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ECT 461</td>
<td>Powr Distribtn&amp;Contrl</td>
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<tr>
<td>MFG 204</td>
<td>Materials &amp; Processes</td>
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<td>MFG 204L</td>
<td>Matrials&amp;Processes Lab</td>
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<td>MFG 432</td>
<td>Mtrls&amp;Proc Plastics</td>
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<td>MFG 438</td>
<td>Sustnble Mfg&amp;Pdr Des</td>
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Total Hours: 13

1. If the minor’s required courses are already required by the student’s major, the student may select IET 420, MEE 472, MEE 473, MEE 478, and/or SEE 250 to complete a total of at least twelve semester hours. Students in Engineering programs may not select courses with content similar to courses offered in their major.

Electronic Computer Tech Courses

ECT 110. Electrcl Circuits I 3 Hours

ELECTRICAL CIRCUITS I - Practical concepts of single voltage source DC and AC circuits: current, voltage, resistance, power, series and parallel circuits, capacitance, magnetic circuits, and inductance. Corequisite(s): ECT 110L.

ECT 110L. Elec Circuits I Lab. 1 Hour

ELECTRICAL CIRCUITS I LABORATORY - Experiments in single voltage source DC and AC circuits to accompany ECT 110. Three laboratory hours per week. Corequisite(s): ECT 110.

ECT 120. Elec Circuits II 3 Hours

ELECTRICAL CIRCUITS II - Practical concepts of multiple voltage and current source DC and AC circuits: reactance, impedance, phase, circuit analysis, power factor, resonance, filters, and transformers. Circuit calculations using vectors, complex algebra, and simultaneous equations. Prerequisite(s): ECT 110.

ECT 206. Electron Devices I 3 Hours

ELECTRON DEVICES I - Fundamentals of semiconductor diodes, transistors (bipolar and field effect), amplifiers, biasing and small signal analysis. Prerequisite(s): ECT 120.
ECT 206L. Electron Devices I Lab. 1 Hour
ELECTRON DEVICES I LABORATORY - To accompany ECT 206. Three hours of laboratory a week.

ECT 224. Digital Computer Fund. 3 Hours
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 Comptr Lab. 1 Hour
DIGITAL COMPUTER FUNDAMENTALS LABORATORY - To accompany ECT 224. Three hours of laboratory a week.

ECT 306. Electron Devices II. 3 Hours
ELECTRONIC DEVICES II - Fundamentals of integrated circuits, operational amplifiers, transistors, photoelectric devices, silicon-controlled rectifiers, and their associated circuits. Prerequisite(s): ECT 206.

ECT 306L. Elect Devices II Lab. 1 Hour
ELECTRON DEVICES II LABORATORY - To accompany ECT 306. Three hours of laboratory a week.

ECT 357. Microprocessors I. 3 Hours
MICROPROCESSORS I - Study of microprocessor architecture, hardware, software, applications, and development tools. Prerequisite(s): ECT 224.

ECT 358. Microprocessors II. 3 Hours
MICROPROCESSORS II - Advanced microprocessors study including development tools and software with regards to interfacing equipment in applications. Prerequisite(s): ECT 357, ECT 361. Corequisite(s): ECT 358L.

ECT 358L. Microprocssrs II Lab. 1 Hour
MICROPROCESSORS II LABORATORY - To accompany ECT 358. Emphasis on microcomputer programming. Three hours of laboratory a week. Prerequisite(s): ECT 357.

ECT 361. Programming Strctrs. 3 Hours
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. Concp&Appl-COS. 3 Hours
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, ECT 361.

ECT 400. Selected Topics. 1-4 Hours
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 Acquis&Msrmnts. 2 Hours
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 110L; (ECT 206 or MCT 221); ENG 102; SET 153L.

ECT 452. Feedback Controls. 3 Hours
FEEDBACK CONTROLS - Study of principles of control including Nyquist criteria, Bode plots, PID loops, motor control virtual instrumentation, and advanced concepts. Laplace transform analysis is utilized. Prerequisite(s): ECT 306, ECT 408.

ECT 456. Autmvt Elec&Sfty Sys. 3 Hours
AUTOMOTIVE ELECTRICAL AND SAFETY SYSTEMS - Theory and design of charging systems, batteries, control systems, safety systems, and various sensor technologies. Overview of manufacturing and commercial aspects of the automotive industry. Prerequisite(s): ECT 110 or EGR 203.

ECT 461. Powr Distrbtrn&Contrl. 3 Hours
POWER DISTRIBUTION AND CONTROL - Study of power distribution systems including components, basic operation, polyphase circuits, characteristics, and application. Emphasis on the generation of electric power, its transmission, and its application to high power systems. Prerequisite(s): ECT 110.

ECT 465. Dgtl Data Communctns. 3 Hours
DIGITAL DATA COMMUNICATIONS - Study of communication methods and protocols. Applications to networks, satellite communication, phone systems, fiber optics, modems, and other data transmission. A special emphasis is placed on digital networks. Prerequisite(s): ECT 358 or equivalent.

ECT 466. Microcmptr Architect. 3 Hours
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. 3 Hours
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 CMM 112); ECT 408; IET 323; MTH 138; senior status.

ECT 494. Honors Thesis. 3 Hours
Engineering Technology Courses

SET 100. First Year Seminar. 0 Hours
ENGINEERING TECHNOLOGY FIRST YEAR SEMINAR - 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. Required of all first-year engineering technology students both semesters.

SET 101. Enrichment Workshop. 0 Hours
ENRICHMENT WORKSHOP - 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. Tech Computatn Lab. 1 Hour
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&Innvtn Lab. 1-6 Hours
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 200. Professional Dev Sem. 0 Hours
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

SET 298. Research&Innvtn Lab. 1-6 Hours
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 300. Egr Tech Transfr Sem. 0 Hours
ENGINEERING TECHNOLOGY TRANSFER SEMINAR A - seminar for full-time engineering technology majors who transferred from another academic institution. 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 communication, and team dynamics. Academic policies, academic planning, registration procedures, counseling, and career placement services.

SET 398. Research&Innvtn Lab. 1-6 Hours
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 400. Special Topics. 0-4 Hours
SPECIAL TOPICS IN ENGINEERING TECHNOLOGY - Investigation and discussion of current topics in engineering technology. May be taken more than once. Prerequisite(s): Permission of department chairperson.

SET 498. Research&Innvtn Lab. 1-6 Hours
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 499. Seminar. 1 Hour
SEMINAR - Career planning for engineering technology majors. The job search process, resume preparation, the job interview, professional development. Required of all engineering technology majors in the junior or senior year.

Global Manufact Sys Egr Tech Courses

MFG 108L. Manufac Proc Lab. 1 Hour
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&Processes. 3 Hours
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. Corequisite(s): MFG 204L.
MFG 204L. Materials & Processes Lab. 1 Hour
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. Corequisite(s): MFG 204.

MFG 206L. Dimensional Metrology. 1 Hour
DIMENSIONAL METROLOGY LABORATORY - 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; coordinate measuring machine; length standards and height gages; fixed and functional gages; sources of measurement error. Three hours of laboratory a week. Prerequisite(s): MCT 110L; MTH 137.

MFG 208L. Geometric Dimensioning & Tolerancing Lab. 1 Hour
GEOMETRIC DIMENSIONING AND TOLERANCING LABORATORY - Study of the use of ANSI Y14.5M-1994, the engineering standard for geometric dimensioning and tolerancing. Includes the proper use of GD&T symbols, reading and interpretation of engineering drawings, techniques for determining part adherence to design requirements and workmanship standards. Prerequisite(s): MCT 110L.

MFG 240. Manufacturing Design. 3 Hours
MANUFACTURING AND PRODUCT DESIGN - Manufacturing planning; 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, MFG 204.

MFG 400. Selected MFG Topics. 1-4 Hours
SELECTED MANUFACTURING TOPICS - Investigation and discussion of current topics in manufacturing engineering technology. May be taken more than once. Prerequisite(s): Permission of department chairperson.

MFG 424. Robotics. 3 Hours
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, MCT 313; SET 153L.

MFG 427. CIM and Global MFG. 3 Hours
COMPUTER INTEGRATED MANUFACTURING AND GLOBAL MANUFACTURING - Computer Integrated Manufacturing (CIM) systems and interrelationships; group technology, computer-aided process planning, expert systems, local area networks, automated flow lines, data collection, and material handling. Also covered are global manufacturing issues and specific country concerns. Prerequisite(s): ECT 110; MFG 108L, MFG 204; SET 153L.

MFG 431. Controls-Ind Auto. 3 Hours
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. Prerequisite(s): ECT 110; SET 153L.
IET 316. Quantitative Analysis. 3 Hours
QUANTITATIVE ANALYSIS - Introduction of the mathematical techniques used to support decision making and managerial analysis. Probability theory, decision theory, linear programming, queuing theory, matrix algebra, differential and integral calculus, and differential equations. Prerequisite(s): MTH 138 or MTH 168; MTH 207.

IET 317. Industrial Econ&Analysis. 1-3 Hours
INDUSTRIAL ECONOMIC AND FINANCIAL 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. Basic financial accounting concepts, including balance sheets, income statements, change of financial condition, etc. Prerequisite(s): MTH 137.

IET 318. Statistical Proc Contr. 3 Hours
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.

IET 319. Quality Improv Mtds. 3 Hours
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 318.

IET 320. Quality Assurance Technqs. 3 Hours
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.

IET 321. Quality Management. 3 Hours
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.

IET 322. Project Management. 3 Hours
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 Ds. 3 Hours
FACILITIES LAYOUT DESIGN - Design of manufacturing and service 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): MCT 110L. Corequisite(s): MCT 111L.

IET 346. Six Sigma Yellow Belt. 1.5 Hour
SIX SIGMA YELLOW BELT - This course is designed to facilitate skill acquisition along with clinical reasoning and decision making as it relates to the physical therapy care and management of various advanced topics including cardiopulmonary rehabilitation, women’s health issues, manual therapy strategies, electrotherapeutics as well as orthopedic, neurological, and pediatric therapeutic interventions. Prerequisite(s): Successful completion of all prior course work as outlined in the University of Dayton DPT curriculum.

IET 400. Selected Topics. 1-4 Hours
SELECTED TOPICS - Self-paced research course. Preparation of a documented written research project on an engineering technology subject. May not be taken more than once. Prerequisite(s): Junior or senior status; permission of department chairperson.

IET 408. Lean Mgt Methods. 3 Hours
LEAN MANAGEMENT METHODS - Study of the principles and current practices of optimizing production using Lean Management concepts. Lean Thinking, Just-in-Time, Kaizen, set-up reduction, pull systems, focused factories, standard operations, total productive maintenance, and defect-free processing methods are studied and applied. Prerequisite(s): Junior or senior status.

IET 415. Mgt of Global Tch Org. 3 Hours
MANAGEMENT OF GLOBAL TECHNICAL ORGANIZATIONS - Study of the structure of industrial and service organizations; study of the duties and responsibilities of a manager or supervisor in a global 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 Estmtng&Control. 3 Hours
COST ESTIMATING AND CONTROL - 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, budgets, and profit. Semester team and individual projects, written and oral. Study of job order and process cost accounting, activity based costing, and cost-volume-profit relationships. Prerequisite(s): MTH 137.

IET 420. Indstrl&Envirnntl Sft. 3 Hours
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. IET-Service Orgznzns. 3 Hours
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 major; junior status.

IET 425. Elmnts-Cost Ctrl. 3 Hours
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.
IET 435. Human Factors. 3 Hours
HUMAN FACTORS - Methods to improve the interface between humans and their environment. Human characteristics are studied to determine the best way to design the task, product, work station, or other environmental features to accommodate the human. Written and oral projects. Prerequisite(s): (Junior or senior status) or permission of instructor.

IET 446. Six Sigma Green Belt. 3 Hours
SIX SIGMA GREEN BELT - Learn, practice, and use six-sigma tools in preparation of a final certification project in a commercial business situation. Use, analyze and solve an identified business variation problem to achieve industry recognized certification.

IET 490. Senior Project. 3 Hours
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, (CMM 111 or CMM 112); IET 317, IET 323, IET 332, IET 408, IET 435; MTH 138; senior status.

IET 493. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

IET 494. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): IET 493.

Mechanical Engineering Tech Courses

MCT 110L. Tech Drawing & Cad. 2 Hours
TECHNICAL DRAWING AND CAD LABORATORY - Technical sketching and shape description, orthogonal 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. Intro-Design Lab. 2 Hours
INTRODUCTION TO DESIGN LABORATORY - 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. Prerequisite(s): MCT 110L.

MCT 220. Statics & Dynamics. 3 Hours
STATICS 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 Matr. 3 Hours
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, MFG 204L; MTH 137; SET 153L.

MCT 231. Fluid Mechanics. 3 Hours
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, MFG 204L; MTH 137; SET 153L.

MCT 313. Industrial Mechanism. 3 Hours
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, MCT 220; MTH 137; SET 153L.

MCT 317. Machine Dynamics. 3 Hours
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 111L, MCT 313; MTH 138.

MCT 330. Design-Machine Elmnts. 3 Hours
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 111L, MCT 221; MFG 208L; SET 153L.

MCT 336. Fluid Power. 3 Hours
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 Lab. 1 Hour
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. 3 Hours
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 Topics. 1-4 Hours
SELECTED MECHANICAL TOPICS - Investigations and discussion of cur-rent technical topics in mechanical engineering technology. Research report. May be taken more than once. Prerequisite(s): Permission of department chairperson.

MCT 423. Product Development. 3 Hours
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. Des-Fluid Power Sys. 3 Hours
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. 3 Hours
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 reheating 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. 3 Hours
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. 3 Hours
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. Expermtl Mechanics. 3 Hours
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. Expermtl Mech Lab. 1 Hour
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. Finite Element Moding. 3 Hours
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 456. Autmtv Pwrtn&Chs Sys. 3 Hours
AUTOMOTIVE POWERTRAIN AND CHASSIS SYSTEMS - Theory and design of engines, transmissions, suspension, and chassis systems. Overview of manufacturing and commercial aspects of the automotive industry. Prerequisite(s): MCT 334; EGR 201 or MCT 220.

MCT 490. MCT Senior Project. 3 Hours
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, (CMM 111 or CMM 112); IET 323; MCT 111L, MCT 317, MCT 330; MTH 138; senior status.

MCT 493. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

MCT 494. Honors Thesis. 3 Hours
HONORS THESIS - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): MCT 493.

Mechanical and Aerospace Engineering

Major:
- Bachelor of Mechanical Engineering

Concentrations:
- Aerospace Engineering
- Energy Systems-Mechanical

Minors:
- Aerospace Engineering
- Mechanical Systems

Mechanical engineers apply principles of motion, energy, force, materials and mathematics to design and analyze a wide variety of products and systems. The field requires an understanding of core concepts including mechanics, kinematics, thermodynamics, heat transfer,
materials science, and controls. Mechanical engineers use these core principles along with tools like computer-aided engineering and product life cycle management to design and analyze manufacturing plants, industrial equipment and machinery, heating and cooling systems, automotive systems, aircrafts, robotics, medical devices and more. Today, mechanical engineers are pursuing developments in such fields as composites, mechatronics, nanotechnology, and are helping to create a more sustainable future.

The mechanical engineering curriculum 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. The curriculum includes sufficient elective courses to permit a concentration in aerospace, energy systems, and engineering as well as minors in several other areas.

The education experience, guided by the University of Dayton Catholic and Marianist heritage, seeks to prepare graduates who will:

- have the ability to apply mathematics, science, and engineering fundamentals and computational tools to design components, systems and/or processes;
- have the ability to design and conduct experiments and analyze and interpret data;
- have the ability to communicate their ideas/solutions effectively;
- serve as effective team members and leaders;
- understand the social, environmental and economic impact of engineering in a global context;
- be able to think critically about contemporary issues;
- continue their personal and professional development by engaging in lifelong learning;
- integrate ethical action, integrity, and service into their profession and lives.

**Faculty**

J. Kelly Kissock, Chairperson

Professors Emeriti: Chuang, Doepker, Eastep, Eimermacher, Minardi, Schauer, Wurst

Professors: Ballal, Doyle, Ervin, Hallinan, Jain, Kashani, Kissock, Murray

Associate Professors: Altman, Petrykowski, Pinnell

Assistant Professors: Bigelow, Rumpfkeil

Lecturer: Henrick

Graduate Faculty: Brockman, Camberos, Konolay, Olsen, Sidhu, Stouffer, Zabarnick

**Bachelor of Mechanical Engineering (MEE)**

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<thead>
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<td>CHM 123</td>
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<tr>
<td>CHM 123L</td>
<td>Gen Chemistry Lab</td>
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<tr>
<td>CMM 110</td>
<td>Group Dec-Making</td>
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<tr>
<td>CMM 111</td>
<td>Inform Public Sp</td>
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<tr>
<td>or CMM 112</td>
<td>Persuasive Public Sp</td>
<td>1</td>
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<tr>
<td>CMM 113</td>
<td>Interviewing</td>
<td>1</td>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
</table>

- ECE 201L | Circuit Anlys Lab | 1 |
- EGM 202  | Dynamics           | 3 |
- EGM 303  | Mechanics II       | 3 |
- EGR 100  | Enrichment Workshop (2 semesters) | 0 |
- EGR 103  | Engineering Innovath | 2 |
- EGR 201  | Engr Mechanics      | 3 |
- EGR 202  | Engr Thermodynamics  | 3 |
- EGR 203  | Electr & Electrc Crt | 3 |
- ENG 100  | Writing Seminar I    | 6 |
- & ENG 200 | and Writing Seminar II | |
- or ENG 200H | Writing Seminar II | |
- HST 103  | West and World        | 3 |
- or HST 198 | HST Scholars Sem    | |
- MEE 101  | Intro to Mech Engr (2 semesters) | 0 |
- MEE 104L | Computer Graphics I    | 1 |
- MEE 200  | Prof Development Sem (2 semesters) | 0 |
- MEE 227L | Computer Graphics II   | 1 |
- MEE 308  | Fluid Mechanics       | 3 |
- MEE 312  | Engr Materials I       | 4 |
- & 312L   | and Materials Lab     | 3 |
- MEE 314  | Computational Mthds    | 3 |
- MEE 321  | Theory of Machines     | 3 |
- MEE 341  | Engineering Expermntn | 3 |
- MEE 344  | Manufctmg Processes 1,2 | 3 |
- MEE 410  | Heat Transfer          | 4 |
- & 410L   | and Thermofluids Lab   | 3 |
- MEE 415  | Professnl Dvlpmnt I   | 0 |
- MEE 416  | Professnl Dvlpmnt II  | 1 |
- MEE 427  | Mech Design I          | 3 |
- or MEE 425 | Aerospace Design     | 3 |
- MEE 431L | MultiDisplayEngrDsgn I | 1 |
- MEE 432L | Midtsy Egr Ds Lb II   | 3 |
- MEE 433  | Proj Mgmt&Innvntr     | 1 |
- MEE 439  | Dynamic Sys & Conrls   | 4 |
- or MEE 440 | Flight Vehicle Perf   | 3 |
- MEE 460  | Engineering Analysis   | 3 |
- MTH 168  | Anly Geom & Calc I     | 4 |
- MTH 169  | Anly Geom & Calc II    | 4 |
- MTH 218  | Anly Geom & Calc III   | 4 |
- MTH 219  | Appl Diff Equations    | 3 |
- PHL 103  | Intro To Philosophy    | 3 |
- PHY 206  | Gen Physics I Mech     | 3 |
- PHY 207  | Gen Phy II Ele & Mag   | 3 |
- REL 103  | Intro to Religion      | 3 |

Select one ethics elective from:

- PHL 316  | Engineering Ethics      | 3 |
- REL 369  | Chrstn Ethics & Engr   | 3 |

Select one math/science elective from:

- BIO 151  | Concepts of Bio I       | 3 |
- BIO 152  | Concepts of Bio II      | 3 |
- CHM 124  | General Chemistry       | 3 |
- GEO 208  | Environmntl Geology     | 3 |
Concentration in Aerospace Engineering (AEC)

This concentration is open only to mechanical engineering majors. The program provides a strong background for career specialization in the fields of aircraft and aerospace engineering.

- MEE 225  Intro to Flight  3
- MEE 401  Aerodynamics  3
- MEE 409  Aerospace Structure  3
- MEE 425  Aerospace Design  3
- MEE 440  Flight Vehicle Perf  4

Select one course from:
- AEE 558  Compu Fluid Dyn  3
- MEE 413  Propulsion  3

Any approved graduate AEE course  3

Total Hours  22

Concentration in Energy Systems - Mechanical (MRS)

This concentration is open to all engineering students.

- EGR 202  Engr Thermodynamics  3
- MEE 308  Fluid Mechanics  3
- MEE 410  Heat Transfer  3

Select three courses from:
- ASI 320  Cities and Energy  9
- CEE 390  Envr Pollutn Cntrl  9
- CEE 434  Water & Waste Engr  9
- ECO 435  Eco of Environment  9
- PHL 321  Environmentl Ethics  9
- PHY 220  Energy & Env Physics  9
- POL 371  Environmental Policy  9
- SEE 301  Gbl Chng&Eth Sys  9
- SEE 401  Sustnblty Research I  9
- Any approved Arts and Science energy/sustainability related elective  9

Select three courses from:
- AEE 558  Fundmntls-Combustion or MEE 565  Fund of Combustion  9
- AEE 566  Combustion Theory  9
- MEE 413  Propulsion  9
- MEE 420  Energy Effcnt Bldgs  9
- MEE 432L  Midspy Egr Ds Lb II  9
- MEE 471  Des-Thermal Systems  9
- MEE 472  Des-Environment  9
- MEE 473  Renewable Energy Sys  9
- MEE 478  Energy Eff Manufact  9
- MEE 493  Honors Thesis  9
- MEE 511  Adv Thermodynamics  9

Any approved engineering energy/sustainability related elective  27

Total Hours  132

Minor in Aerospace Engineering (AAE)

This minor is open to chemical, civil, and mechanical engineering majors. The program provides a strong background for career specialization in the fields of aircraft and aerospace engineering.

Select four courses from:
- AEE 558  Compu Fluid Dyn  12
- MEE 225  Intro to Flight  12
- MEE 401  Aerodynamics  12
- MEE 409  Aerospace Structure  12
- MEE 425  Aerospace Design  12
- MEE 440  Flight Vehicle Perf  12
- MEE 413  Propulsion  12
- Approved AEE related elective  12

Total Hours  48

Minor in Mechanical Systems (MES)

This area concentrates on the study of design and analysis as well as modeling and control of mechanical systems. The activities in this area include, but are not limited to, computer-aided design, kinematic synthesis and analysis, acoustics and structural dynamics, noise and vibrations control, system modeling and identifications, and dynamics systems and control.

Select four courses from:
- ECE 416  Intro to Robotics  12
- ECE 545  Automatic Control  12
- MEE 428  Mech Design II  12
- MEE 430/530  Biomechanical Engr  12
- MEE 434/537  Mechatronics  12

Total Hours  48
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Intro Continuum Mech</td>
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<td>Analytical Dynamics</td>
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<td>Kinematic Prin-Dsgn</td>
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<td>MEE 522</td>
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<tr>
<td>MEE 523</td>
<td>Engr Des Optimizatn</td>
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<tr>
<td>MEE 535</td>
<td>Adv Mech Vibrations</td>
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<tr>
<td>MEE 545</td>
<td>Computr Methds-Desgn</td>
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<tr>
<td>MEE 546</td>
<td>Finite Elmnt Anly I</td>
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<td><strong>Total Hours</strong> 12</td>
</tr>
</tbody>
</table>

1 Approval of Department Chair needed.

**Courses**

**MEE 101. Intro to Mech Engr. 0 Hours**  
INTRODUCTION TO MECHANICAL ENGINEERING - Weekly meeting of first-semester, first-year mechanical engineering students. Orientation to engineering problem solving and team building through hands on applications.

**MEE 104L. Computer Graphics I. 1 Hour**  
COMPUTER GRAPHICS I - Fundamentals of engineering graphics and the part that graphical communication plays in engineering. Introduction to computer aided design (CAD).

**MEE 198. Research&Innvtn Lab. 1-6 Hours**  
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 200. Prof Development Sem. 0 Hours**  
PROFESSIONAL DEVELOPMENT SEMINAR - Presentations on contemporary and professional engineering subjects by students, faculty, and engineers in active practice. The seminar addresses topics in key areas that complement traditional courses and prepare distinctive graduates, ready for life and work. Registration required for all sophomore students.

**MEE 225. Intro to Flight. 3 Hours**  
INTRODUCTION TO FLIGHT - 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.

**MEE 227L. Computer Graphics II. 1 Hour**  
COMPUTER GRAPHICS II - Advanced engineering graphics and graphical communication in engineering; introduction to project design. Prerequisite(s): MEE 104L.

**MEE 298. Research&Innvtn Lab. 1-6 Hours**  
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 308. Fluid Mechanics. 3 Hours**  

**MEE 312L. Materials Lab. 1 Hour**  
MATERIALS LABORATORY - Conducting mechanical and physical tests on solids including, but not limited to tension, compression, bending, hardness, and impact. Metallographic examination of surfaces. Test standards, data reduction, analysis, interpretation, and written and oral communication of test results. Corequisite(s): EGM 303; MEE 312L.

**MEE 314. Computational Mthds. 3 Hours**  
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 321. Theory of Machines. 3 Hours**  

**MEE 341. Engineering Expermntn. 3 Hours**  
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. 3 Hours
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; forming and shaping plastics and composite
materials; rapid prototyping. Design principles for manufacturability.
Includes laboratory. Prerequisite(s): MEE 312.

MEE 398. Research & Invntn Lab. 1-6 Hours
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 401. Aerodynamics. 3 Hours
AERODYNAMICS - Fundamentals of steady, incompressible, and
inviscid aerodynamic flows over wings. Emphasis on force and moment
determination for air foil and finite wings. Prerequisite(s): MEE 308.

MEE 409. Aerospace Structure. 3 Hours
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. 3 Hours
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 410L. Thermofluids Lab. 1 Hour
THERMO-FLUIDS LABORATORY - Hands-on opportunities for students
to gain knowledge of instrumentation used for temperature, flow, heat,
and pressure measurement and to visualize-thermo-fluids phenomena
in a rich problem solving context. Phenomena to be studied include:
boundary layer and separation phenomena, internal flow characteristics,
hydraulics, conduction, convection, and combustion. Corequisite(s): MEE
410.

MEE 413. Propulsion. 3 Hours
PROPULSION - Principles of propulsive devices, aerothermodynamics,
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. Professnl Dvpmnt I. 0 Hours
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 MEE juniors.

MEE 416. Professnl Dvpmnt II. 1 Hour
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 MEE seniors.

MEE 417. Internl Combstn Engn. 3 Hours
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): EGR 202 or permission of instructor.

MEE 420. Energy Efficient Bldgs. 3 Hours
ENERGY EFFICIENT BUILDINGS - Provides knowledge and skills
necessary to design and operate healthier, more comfortable, more
productive, and less environmentally destructive buildings. A specific
design target of E/3 (typical energy use divided by three) is established
as a goal. Economic, thermodynamic, and heat transfer analyses are
utilized. Extensive software development. Prerequisite(s): MEE 410.

MEE 425. Aerospace Design. 3 Hours
AEROSPACE DESIGN - Capstone Air Vehicle Design project that
involves both individual and team-based conceptual and preliminary
design and sizing. This course integrates the knowledge acquired
from the disciplinary subjects already taken (aerodynamics, aerospace
structures, propulsion, flight dynamics and intro to flight) in order to size
an air vehicle based on a set of requirements. Prerequisite(s): (MEE 225,
MEE 401, MEE 409) or permission of instructor. Corequisite(s): MEE
431L.

MEE 427. Mech Design I. 3 Hours
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. Mech Design II. 3 Hours
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 430. Biomechanical Engr. 3 Hours
BIOMECHANICAL ENGINEERING - Application of engineering principles
to clinical, occupational, and sports biomechanics topics. The course
focuses on biomechanical analysis, particularly kinematics and kinetics of
human movement, with emphasis on both research and product design.

MEE 431L. MultiDisplayEngrDsgn I. 1 Hour
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 MEE 427.
MEE 432L. Multidisciplinary Engineering Design Laboratory 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 MEE 427.

MEE 433. Project Management & Innovation - Introduces students and teams to project management, entrepreneurship, and innovation. Topics include project management, cost estimating, time value of money, patent law, marketing, finance, and business plan development. Prerequisite(s): Junior status.

MEE 434. Mechatronics - Emphasis on the integration of sensors, micro-controllers, electromagnetic actuators, and control theory in a “smart” system for a semester long design project. Topics include: sensor signal processing, electromagnetic 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 438. Robotics & 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): ECE 321.

MEE 439. Dynamic Systems & 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) 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; MEE 401, MEE 225; MTH 219) 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): MEE 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. Des-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 478. Energy Efficient Manufacturing - This course presents a systematic approach for improving energy efficiency in the manufacturing sector. Current patterns of manufacturing energy use, the need for increased energy efficiency, and models for sustainable manufacturing are reviewed. The lean-energy paradigm is applied to identify energy efficiency opportunities in industrial, electrical, lighting, space conditioning, motor drive, compressed air, process heating, process cooling, and combined heat and power systems. Prerequisite(s): (EGR 202 or equivalent) or permission of instructor.

MEE 490. Special Topics - Particular assignments to be arranged and approved by the department chairperson.

MEE 493. Honors Thesis - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program.

MEE 494. Honors Thesis - Selection, design, investigation, and completion of an independent, original research study resulting in a document prepared for submission as a potential publication and a completed undergraduate thesis. Restricted to students in University Honors Program. Prerequisite(s): MEE 493.
MEE 498. Research & Invention Lab. 1-6 Hours
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. 1-6 Hours
SPECIAL PROBLEMS IN MECHANICAL AND AEROSPACE ENGINEERING - Particular assignments to be arranged and approved by department chairperson.
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