2009-2010 Bulletin

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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. A top-tier national university, it is one of the pre-eminent Catholic universities in the nation and the largest private university in Ohio.

The University's campus sits on a hill overlooking the city of Dayton, Ohio. Its 259 landscaped acres feature a well-integrated mix of historical brick buildings and modern architecture that are attractive and well-equipped. The faculty members are excellent scholars and instructors, pursuing knowledge in its rich variety and dedicated to student learning and educational excellence.

Known for its top academic programs, career preparation, and involved student body, the University draws students of many faiths and economic, ethnic, and social backgrounds from across the country and numerous foreign countries. Students at the University of Dayton engage the world and strive to make a difference in it by committing themselves to learning, leadership, and service.

The myriad aspects of the character of the University of Dayton are exemplified by: a lively, friendly atmosphere; numerous and varied religious, cultural, and social opportunities; intercollegiate and intramural athletic programs for both men and women; academic options such as education abroad, honors programs, independent study, and research projects; academic, professional, and personal counseling; career preparation through internships and cooperative education; and a job placement and networking service for students and alumni.

1The Society of Mary, founded in France in 1817 by Father William Joseph Chaminade, presently conducts schools throughout the United States and in Africa, Canada, Europe, India, Japan, Korea, and Central and South America. The Society operates Chaminade University in Honolulu and St. Mary's University in San Antonio.
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.
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 Zeher 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 buildings. 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 closed; 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 Wohlleben 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 Phillips 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 Donoher 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 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 Purposes

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

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

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

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

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

The University of Dayton recognizes its responsibility to support, with means appropriate to its purposes, the legitimate goals and aspirations of the civic community and to cooperate with other agencies in striving to attain them. It assists in promoting the intellectual and cultural enrichment of the community; it makes available not only the resources of knowledge that it possesses, but also the skills and techniques used in the accumulation and dissemination of knowledge; and, above all, it strives to inspire persons with a sense of community and to encourage men and women of vision who can and will participate effectively in the quest for a more perfect human society.
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 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 National Association of Schools of Public Affairs and Administration (NASPAA)
- The National Council for Accreditation of Teacher Education (NCATE)
- The Technology 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 computer engineering technology, electronic engineering technology, industrial engineering technology, manufacturing engineering technology, and mechanical engineering technology
- 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

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 American Law Schools
- 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
- The Dayton Art Institute (sponsoring)
- The Institute of International Education
- The International Federation of Catholic Universities (IFCU)
- The League of Ohio Law Schools
- The Midwestern Criminal Justice Association
- The National Association of College and University Food Services
- The National Association of College Auxiliary Services
- The National Association for Foreign Student Affairs
- The National Association of Independent Colleges and Universities
- The National Association of Student Personnel Administrators
- The National Catholic Education Association
- The National Council of Catholic Bishops
- The National Scholarship Service and Fund for Negro Students
- The National University Teleconference Network
- The North Central Association of Colleges and Schools
- The Ohio Academy of Science
- The Ohio Association of Colleges for Teacher Education
- The Ohio Association of Private Colleges for Teacher Education
- The Ohio Campus Compact
- The Ohio College Association
- The Ohio Continuing Higher Education Association
- The PBS Adult Learning Satellite Service
- The Society for the Advancement of Education
- The Southwestern Ohio Council for Higher Education

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

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

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

- Bachelor of Arts
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Electrical Engineering
- Bachelor of Fine Arts
- Bachelor of General Studies
- Bachelor of Mechanical Engineering
- Bachelor of Music
- Bachelor of Science
- Bachelor of Science in Business Administration
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Education and Allied Professions
- Bachelor of Science in Engineering Technology
- Master of Arts
- Master of Business Administration
- Master of Computer Science
- Master of Financial Mathematics
- Master of 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 Masters degree programs in biology, chemistry, communication, computer science, English, applied mathematics, pastoral ministry, psychology, public administration, and theological studies. The College works in collaboration with the School of Education and Allied Professions to offer the Master of Arts in English with a teaching track, the Master of Science in Education and Allied Professions with music education concentration, and the Master of Science in Education and Allied Professions with art education concentration.

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

School of Business Administration

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

School of Education and Allied Professions

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

School of Engineering

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

School of Law

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

The Graduate School

Programs leading to advanced degrees are offered through the College of Arts and Sciences and the Schools of Business, Education, Engineering, and Law.

Doctoral programs are offered in biology, theology; in aerospace engineering, electrical engineering, electro-optics, materials engineering, and mechanical engineering; and in educational leadership. Both Ph.D. and D.E. degrees are offered in engineering.

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

The School of Business Administration offers a Master of Business Administration with concentrations in accounting, entrepreneurship, finance, international business, management information systems, marketing, operations management, and technology-enhanced business. A combined program offering a B.S.B.A. with an accounting major and an M.B.A. is offered. The J.D./M.B.A. joint degree is also offered to students meeting the admission requirements of both the Law School and the School of Business Administration. The Post-Master's Certificate Program offers the opportunity for MBA graduates to receive a professional graduate certificate in an approved concentration field.

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


The School of Law offers a Master of Laws, a Master in the Study of Law, and a Juris Doctor degree.
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 2009-2010

Subject to change

FIRST TERM-FALL
Mon, Aug 10 Degrees conferred-no ceremony
Thu, Aug 20 New Faculty Orientation
Sat-Tue, Aug 22-25 New Student Orientation
Mon, Aug 24 Upperclass students move into UD Housing
Tue, Aug 25 New Student Convocation
Tue, Aug 25 Last day to complete registration
Wed, Aug 26 Classes begin at 8:00 a.m.
Tue, Sep 1 Last day for late registration, change of grading options and schedules
Mon, Sep 7 Labor Day-no classes
Tue, Sep 8 Last day to change Second Session and full Third Term grades
Fri, Sep 11 Last day for Undergraduate students to apply for May 2010 graduation
Fri, Sep 11 Faculty Meeting at 3:00 p.m. (Boll Theatre)
Wed, Sep 16 Last day to drop classes without record
Fri, Sep 25 Last day for Graduate and Doctoral students to apply for December 2009 graduation
Fri, Sep 25 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Fri-Sun, Sep 25-27 Family Weekend
Wed, Oct 7 Mid-Term Break begins after last class
Mon, Oct 12 Classes resume at 8:00 a.m.
Wed, Oct 21 First-year students' midterm progress grades due by 4:00 p.m.
Fri, Oct 23 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Fri, Nov 13 Joint Faculty and Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Mon, Nov 16 Last day to drop classes with record of W
Tue, Nov 24 Thanksgiving recess begins after last class
Sat, Nov 28 Saturday classes meet
Mon, Nov 30 Classes resume at 8:00 a.m.
Fri, Dec 4 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Tue, Dec 8 Feast of the Immaculate Conception/Christmas on Campus-no classes
Thu, Dec 11 Last day of classes
Sat, Dec 12 Study Day
Sun, Dec 13 Study Day
Mon-Fri, Dec 14-18 Exams-First Term ends after final exams
Sat, Dec 19  Diploma Exercises at 9:45 a.m.
Tue, Dec 22 Grades due by 9:00 a.m., Deficiency reports due in Deans' Offices
Mon, Dec 28 Grades mailed
Mon, Jan 25 Last day to change First Term grades

SECOND TERM-SPRING
Wed, Dec 30  Last day to complete registration
Mon, Jan 4 Classes begin at 8:00 a.m.
Fri, Jan 8  Last day for late registration, change of grading options and schedules
Fri, Jan 15 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Mon, Jan 18 Martin Luther King, Jr. Day-no classes
Mon, Jan 25 Last day to change First Term grades
Mon, Jan 25 Last day to drop classes without record
Fri, Jan 29 Faculty Meeting at 3:00 p.m. (KU Ballroom)
Mon, Feb 1 Last day for Graduate and Doctoral students to apply for May 2010 graduation
Fri, Feb 19 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Fri, Feb 26 Mid-Term Break begins after last class
Sat, Feb 27 Saturday classes meet
Sat, Mar 6 Saturday classes meet
Mon, Mar 8 Classes resume
Tue-Wed, Mar 9-10 Graduation Fair
Wed, Mar 10 First-year students' midterm progress grades due by 4:00 p.m.
Mon, Mar 15 Last day for Undergraduate students to apply for August 2010 graduation
Fri, Mar 26 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Mon, Mar 29 Last day to drop classes with record of W
Wed, Mar 31 Easter Recess begins after last class
Thu, Apr 1 Last day for Undergraduate students to apply for December 2010 graduation
Mon, Apr 5 Easter Monday-No day classes-Courses resume at 4:30 p.m.
Fri, Apr 9 Faculty Meeting at 3:00 p.m. (Boll Theatre)
Fri, Apr 23 Last day of classes
Fri, Apr 23 Academic Senate Meeting at 3:00 p.m. (KU Ballroom)
Sat, Apr 24 Study Day
Sun, Apr 25 Study Day
Mon-Fri, Apr 26-30 Exams-Second Term ends after final exams
Sat, May 1 Doctoral/Graduate Commencement Exercises at 9:45 a.m.
Sun, May 2 Undergraduate Commencement Exercises at 9:45 a.m.
Tue, May 4 Grades due by 9:00 a.m., Deficiency slips due in Deans' Offices
Fri, May 7 Grades mailed
Mon, Jun 7 Last day to change Second Term grades

THIRD TERM-(SUMMER) FIRST SESSION
Fri, May 7 Last day to complete registration
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat, May 8</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, May 10</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, May 11</td>
<td>Last day for late Third Term-First Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Thu, May 13</td>
<td>Last day for late full Third Term registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Wed, May 19</td>
<td>Last day to drop without record from First Session classes</td>
</tr>
<tr>
<td>Mon, May 31</td>
<td>Memorial Day-no classes</td>
</tr>
<tr>
<td>Mon, Jun 7</td>
<td>Last day to change Second Term grades</td>
</tr>
<tr>
<td>Mon, Jun 7</td>
<td>Last day to drop with record of W from First Session classes</td>
</tr>
<tr>
<td>Fri-Sat, Jun 18-19</td>
<td>Exams-full Third Term classes do not meet First Session ends after final examinations</td>
</tr>
<tr>
<td>Tue, Jun 22</td>
<td>Grades due by 9:00 a.m., Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, Jun 25</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Wed, Jun 30</td>
<td>Last day to drop without record from full Third Term classes</td>
</tr>
<tr>
<td>Thu, Jul 1</td>
<td>Last day for Graduate and Doctoral students to apply for August 2010 graduation</td>
</tr>
<tr>
<td>Mon, Jul 26</td>
<td>Last day to change First Session grades</td>
</tr>
<tr>
<td></td>
<td><strong>THIRD TERM-(SUMMER) SECOND SESSION</strong></td>
</tr>
<tr>
<td>Fri, Jun 18</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Sat, Jun 19</td>
<td>Saturday classes begin</td>
</tr>
<tr>
<td>Mon, Jun 21</td>
<td>Second Session classes begin</td>
</tr>
<tr>
<td>Tue, Jun 22</td>
<td>Last day for late Third Term-Second Session registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Wed, Jun 30</td>
<td>Last day to drop without record from Second Session and full Third Term classes</td>
</tr>
<tr>
<td>Thu, Jul 1</td>
<td>Last day for Graduate and Doctoral students to apply for August 2010 graduation</td>
</tr>
<tr>
<td>Mon, Jul 5</td>
<td>Independence Day Observed-no classes</td>
</tr>
<tr>
<td>Mon, Jul 19</td>
<td>Last day to drop with record of W from Second Session and full Third Term classes</td>
</tr>
<tr>
<td>Mon, Jul 26</td>
<td>Last day to change First Session grades</td>
</tr>
<tr>
<td>Fri-Sat, Jul 30-31</td>
<td>Exams-Second Session and full Third Term end after final examinations</td>
</tr>
<tr>
<td>Tue, Aug 3</td>
<td>Grades due by 9:00 a.m., Deficiency slips due in Deans' Offices</td>
</tr>
<tr>
<td>Fri, Aug 6</td>
<td>Grades mailed</td>
</tr>
<tr>
<td>Mon, Aug 9</td>
<td>Degrees conferred-no ceremony</td>
</tr>
<tr>
<td>Tue, Sep 7</td>
<td>Last day to change Second Session and full Third Term grades</td>
</tr>
</tbody>
</table>
# Academic Calendar 2010-2011

## Subject to Change

### FALL 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon, Aug 9</td>
<td>Degrees conferred-no ceremony</td>
</tr>
<tr>
<td>Thu, Aug 19</td>
<td>New Faculty Orientation</td>
</tr>
<tr>
<td>Sat-Tue, Aug 21-24</td>
<td>New Student Orientation</td>
</tr>
<tr>
<td>Sun, Aug 22</td>
<td>Upperclass students move into UD Housing</td>
</tr>
<tr>
<td>Tue, Aug 24</td>
<td>New Student Convocation</td>
</tr>
<tr>
<td>Tue, Aug 24</td>
<td>Last day to complete registration</td>
</tr>
<tr>
<td>Wed, Aug 25</td>
<td>Classes begin at 8:00 a.m.</td>
</tr>
<tr>
<td>Tue, Aug 31</td>
<td>Last day for late registration, change of grading options and schedules</td>
</tr>
<tr>
<td>Mon, Sep 6</td>
<td>Labor Day-no classes</td>
</tr>
<tr>
<td>Tue, Sep 7</td>
<td>Last day to change Second Session and full Summer Term grades</td>
</tr>
<tr>
<td>Wed, Sep 15</td>
<td>Last day to drop classes without record</td>
</tr>
<tr>
<td>Fri-Sun, Oct 1-3</td>
<td>Family Weekend</td>
</tr>
<tr>
<td>Wed, Oct 6</td>
<td>Mid-Term Break begins after last class</td>
</tr>
<tr>
<td>Mon, Oct 11</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Fri, Oct 15</td>
<td>Last day for Graduate and Doctoral students to apply for December 2010 graduation</td>
</tr>
<tr>
<td>Wed, Oct 20</td>
<td>First-year students' midterm progress grades due by 4:00 p.m.</td>
</tr>
<tr>
<td>Mon, Nov 1</td>
<td>Last day for Undergraduate students to apply for May 2011 graduation</td>
</tr>
<tr>
<td>Mon, Nov 8</td>
<td>Last day to drop classes with record of W</td>
</tr>
<tr>
<td>Tue, Nov 23</td>
<td>Thanksgiving recess begins after last class</td>
</tr>
<tr>
<td>Sat, Nov 27</td>
<td>Saturday classes meet</td>
</tr>
<tr>
<td>Mon, Nov 29</td>
<td>Classes resume at 8:00 a.m.</td>
</tr>
<tr>
<td>Wed, Dec 8</td>
<td>Feast of the Immaculate Conception/Christmas on Campus-no classes</td>
</tr>
<tr>
<td>Fri, Dec 10</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Sat, Dec 11</td>
<td>Study Day</td>
</tr>
<tr>
<td>Sun, Dec 12</td>
<td>Study Day</td>
</tr>
<tr>
<td>Mon-Fri, Dec 13-17</td>
<td>Exams-Fall Term ends after final exams</td>
</tr>
<tr>
<td>Sat, Dec 18</td>
<td>Diploma Exercises at 9:45 a.m.</td>
</tr>
<tr>
<td>Tue, Dec 21</td>
<td>Grades due by 9:00 a.m.</td>
</tr>
<tr>
<td>Thu, Dec 23</td>
<td>Deficiency reports due in Deans' Offices</td>
</tr>
<tr>
<td>Mon, Jan 24</td>
<td>Last day to change Fall Term grades</td>
</tr>
</tbody>
</table>

### CHRISTMAS BREAK
Sun, Dec 19  | Christmas Break begins
Mon, Jan 3   | DPT Program only: DPT 953 and DPT 988 begin
Mon, Jan 17 | Christmas Break ends

**SPRING 2011**

Fri, Jan 14  | Last day to complete registration
Tue, Jan 18  | Classes begin at 8:00 a.m.
Mon, Jan 24  | Last day for late registration, change of grading options and schedules
Mon, Jan 24  | Last day to change Fall Term grades
Tue, Feb 1   | Last day for Graduate and Doctoral students to apply for May 2011 graduation
Mon, Feb 7   | Last day to drop classes without record
Wed, Mar 2   | Mid-Term Break begins after last class (Not applicable for students in the DPT program)
Mon, Mar 7   | Classes resume at 8:00 a.m.
Tue, Mar 15  | Last day for Undergraduate students to apply for August 2011 graduation
Wed, Mar 16  | First-year students' midterm progress grades due by 4:00 p.m.
Fri, Apr 1   | Last day for Undergraduate students to apply for December 2011 graduation
Mon, Apr 4   | Last day to drop classes with record of W
Fri, Apr 15  | DPT Program only: Mid-Term Recess begins after last class
Wed, Apr 20  | Easter Recess begins after last class
Mon, Apr 25  | Easter Monday-No day classes-Classes resume at 4:30 p.m.
Fri, Apr 29  | Last day of classes
Sat, Apr 30  | Study Day
Sun, May 1   | Study Day
Mon-Fri, May 2-6 | Exams-Spring Term ends after final exams
Sat, May 7   | Doctoral/Graduate Commencement Exercises at 12:45 p.m.
Sun, May 8   | Undergraduate Commencement Exercises at 9:45 a.m.
Tue, May 10  | Grades due by 9:00 a.m.
Thu, May 12  | Grades posted
Mon, Jun 13  | Last day to change Spring Term grades

**SUMMER 2011-FIRST SESSION**

Fri, May 13  | Last day to complete registration
Sat, May 14  | Saturday classes begin
Mon, May 16  | Classes begin at 8:00 a.m.
Tue, May 17  | Last day for late Summer Term-First Session registration, change of grading options and schedules
Thu, May 19  | Last day for late full Summer Term registration, change of grading options and schedules
Wed, May 25  | Last day to drop without record from First Session classes
Mon, May 30  | Memorial Day-no classes
Mon, Jun 13     Last day to drop with record of W from First Session classes
Mon, Jun 13     Last day to change Spring Term grades
Fri-Sat, Jun 24-25 Exams-full Summer Term classes do not meet
First Session ends after final examinations
Tue, Jun 28     Grades due by 9:00 a.m.
                 Deficiency slips due in Deans' Offices
Thu, Jun 30     Grades posted
Fri, Jul 1      Last day for Graduate and Doctoral students to apply for August 2011 graduation
Thu, Jul 7      Last day to drop without record from full Summer Term classes
Tue, Aug 2      Last day to change First Session grades

SUMMER 2011-SECOND SESSION

Fri, Jun 24     Last day to complete registration
Sat, Jun 25     Saturday classes begin
Mon, Jun 27     Second Session classes begin
Tue, Jun 28     Last day for late Summer Term-Second Session registration, change of grading options and schedules
Fri, Jul 1      Last day for Graduate and Doctoral students to apply for August 2011 graduation
Mon, Jul 4      Independence Day-no classes
Thu, Jul 7      Last day to drop without record from Second Session and full Summer Term classes
Mon, Jul 18     Last day to drop with record of W from Second Session and full Summer Term classes
Tue, Aug 2      Last day to change First Session grades
Fri-Sat, Aug 5-6 Exams-Second Session and full Summer Term end after final examinations
Mon, Aug 8      Degrees conferred-no ceremony
Tue, Aug 9      Grades due by 9:00 a.m.
                 Deficiency slips due in Deans' Offices
Thu, Aug 11     Grades posted
Tue, Sep 13     Last day to change Second Session and full Summer Term grades
Libraries

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 200 databases on a variety of subjects and has current subscriptions to more than 12,000 journals in print and electronic formats. Its book and microform collections include over 1.3 million volumes. The Libraries also provide comfortable study areas, photocopiers, and individual and group study rooms. Roesch Library has a 50-seat computer lab called the DEC. Located on the second floor, the DEC provides access to the campus network, OhioLINK resources, and the Internet. These computers run Microsoft Office applications, SPSS, and other 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. Four of these workstations, two Macintosh, provide tools for creating and editing digital images, video recordings, and audio files to create multimedia presentations. Student assistants are available during certain hours to help you use the hardware and software and to oversee equipment loans. 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 46 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://library.udayton.edu.

The Marian Library, on the seventh floor of the Roesch Library, houses the world's largest collection of published materials on the Virgin Mary. Its comprehensive collection is devoted to information about and references to the Virgin Mary found in works of Scripture, doctrine, history, tradition, art, culture, spirituality, and devotion. The multi-language collection includes over 95,000 books and pamphlets (6,000 of which were printed before 1800), 165 periodicals, a clipping file of over 60,000 items, and a growing number of microforms. These works are supplemented by a Marian stamp collection, Christmas creche collection, statues, medals, postcards, and other 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. 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 (http://www.udayton.edu/mary/library).

The University of Dayton School of Law Library is located in Joseph E. Keller Hall. Its collection contains over 181,000 volumes and 68,000 physical units of microforms. The open-stack arrangement of the Law Library permits easy access to all materials.

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

Special Programs 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. (UDI courses are listed and described in Section X, Interdisciplinary, Experimental and Special Areas, as are other special offerings.)

The Research Institute, an integral component of the University of Dayton, provides important resources and reinforcement for all levels of academic endeavor, as does UDit. (Visit Section X.) A unit of the Army Reserve Officers Training Corps, based on campus, offers its academic program through the Department of Military Science. (Visit the Department of Military Science in Academic Information.) A unit of the Air Force Reserve Officers Training Corps (AFROTC), based at Wright State University, offers its academic program in coordination with the University of Dayton (see Air Force Reserve Officers Training Corps (AFROTC), Chapter X).
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 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, and other areas.

Consortium member schools include: Air Force Institute of Technology, 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, Sinclair Community College, Southern State Community College, United Theological Seminary, Union Institute & University, University of Dayton, Urbana University, Wilberforce University, Wilmington College, Wittenberg University, and Wright State University.
Student Life and Services

Please select a subsection using the menu to the right.
Athletics

Many people throughout the country have come to know the University of Dayton through the accomplishments of its intercollegiate athletic teams. The mission of the Division of Intercollegiate Athletics at the University of Dayton reflects the mission of the University. That mission is embodied in the following core purposes:

- To educate the total person by integrating the primary academic purposes with educational possibilities and opportunities for young people beyond the classroom
- To teach the value of community and family through collaboration and teamwork
- To instill the fundamentals of sportsmanship, adhering to the values of respect, fairness, civility, honesty and responsibility
- To teach the tools of achievement, including self-discipline, personal responsibility and the setting of high standards
- To develop the individual talents of our student-athletes within the context of shared team goals
- To enhance diversity and minority opportunity at the University of Dayton
- To advance the University of Dayton locally, regionally and nationally through the more highly visible sports, particularly the men's basketball program

There are seven men's intercollegiate sports: football, soccer, and cross country in the fall; basketball in the winter; and baseball, golf, and tennis in the spring. There are ten women's intercollegiate sports: volleyball, soccer, and cross country in the fall; basketball and indoor track in the winter; and softball, rowing, golf, tennis, and outdoor track in the spring. Cheerleading tryouts, open to all students, are held each year.

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

The University of Dayton and its Division of Athletics are committed to abiding by the rules of the NCAA and the Atlantic 10 Conference. The volume and complexity of the NCAA rules prohibits addressing all the possible scenarios that may impact athletic eligibility. Therefore, you are encouraged to visit DaytonFlyers.com and NCAA.org to access the various rules and policies which assist our University in continuing to operate with honor and dignity.

Please do not hesitate to contact the Compliance Staff if you should have any questions.

University of Dayton
Athletics Division Compliance Office
300 College Park
Dayton, OH 45469-1230
Phone: (937) 229-4861
Fax (937) 229-4969
Bookstore

The University of Dayton Bookstore is a service facility operated by the University. Its primary purpose is to provide for the intellectual needs of the University community by making available all required textbooks and by providing a source for essential engineering, art and academic supplies which students need in their areas of study. The University Bookstore also offers a convenient source for students to purchase everyday necessities, gifts, greeting cards, clothing, general books, health care items, and many items bearing the University name and/or logo. American Express, Discover, Flyer Express, MasterCard, Visa, and personal checks are accepted with proper I.D.
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 provides many opportunities for students, faculty and staff. Over thirty service clubs and many annual events provide opportunities for direct service to the poor and marginalized. Spring BreakOut Trips and Summer Immersion Trips, along with the Summer Appalachia Program, offer opportunities for service and justice education in domestic and international settings. Guest speakers and a number of other activities also contribute to these goals. 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

The Retreats and Faith Communities Office offers a wide variety of retreats for sophomores, juniors, seniors, and graduate students. The retreats are varied in size, style, theme, and focus. There are quiet and relaxing guided retreats, wilderness retreats which reflect on faith while enjoying nature, and many other retreats that include activities, discussion, and prayer services. Many of the underclass retreats are led by student teams who prepare through weekly meetings. The office also offers PORCH communities, many small Christian communities each with a different focus. Topics include faith sharing, scripture study, and theological reflection. A variety of other programming is offered as well, including specific programming for the student neighborhood and retreat reunions.
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, and 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. The facility may be used at no added expense by all full time undergraduate students. 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 provides a variety of intramural activities in which anyone can find exercise surrounded by a unique spirit of fun and competition. Activities include softball, flag football, indoor and outdoor soccer, volleyball, basketball, dodge-ball, corn-hole, ultimate frisbee, bowling, racquetball, golf meet, wrestling meet, waterball, and floor hockey. All students are invited to participate; ability is not important, just the desire to play. Please stop by and ask about our programs.

Another popular feature of the Department of Campus Recreation is the Sports Club Program. Currently, there are 30 recognized sports clubs on campus. The Sports Club Program offers students the opportunity to participate on a competitive level, while at the same time learning and developing new skills. Anyone interested in joining a sport club or starting a new one is encouraged to come in and speak with the Sports Club Coordinator.

Schedules concerning free play hours and scheduled events may be secured from the Campus Recreation Office. For more information please visit www.udayton.edu/~recsport/ or call 229-2731.
Career Related Experiences

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

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

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

Simply follow the steps listed in the registration process to register for this online system.
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, and 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.
Community Wellness Services

Community Wellness Services offers educational, collaborative, and interactive programs that educate students, faculty, staff, and community members. Wellness is comprised of seven dimensions: social, spiritual, physical, emotional, environmental, occupational, and intellectual. The mission of Community Wellness Services is to teach the importance of Wellness, how to achieve it, and how to maintain the balance of the 'whole person'. In addition, classes and counseling sessions are offered to reduce substance abuse within the University of Dayton community. These services are the Substance Education Programs (SEP) for a fee of $100, Alcohol Check-ups, the Alcohol Skills Training Programs (ASTP), and comprehensive drug and alcohol assessments for a fee of $150. Also individual AOD sessions are free of charge.

Community Wellness Services is located on the first floor of Gosiger Hall and in the McGinnis Center. Phone (937) 229-1233. Hours are 8:30 a.m. - 4:30 p.m. Monday - Friday. The main mailing address is Community Wellness Services, 300 College Park, Dayton, OH 45469-2610.
Commuter Student Services

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

The advisor to the commuter students provides services and facilities to meet the educational, developmental, and physical needs of these students and maintains contact with the academic and nonacademic areas of the University to increase understanding of these specific needs.
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 three full-service à la carte student dining facilities located in Kennedy Union, Marycrest Complex, and 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 Residence Halls are required to purchase a meal plan. Meal plan options are as follows:

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

**Explore General Information:**

I. **The University of Dayton**

II. **Student Life and Services**
   - Athletics
   - Bookstore
   - Campus Ministry
   - Campus Recreation
   - Career Related Experiences
   - Career Services
   - Community Wellness Services
   - Commuter Student Services
   - Counseling Center
   - Dining Services
   - FlyerCard
   - Flyer Express
   - Health Center
   - International Student and Scholar Services Office
   - Kennedy Union and Student Life
   - Office of Educational and Special Programs
   - Office of Multicultural Affairs
   - Office of Student Learning Services (SLS)
   - Office of Student Learning Services: Students with Disabilities
   - Public Safety
   - Residence Life
   - Student Handbook

III. **Admission**

IV. **Financial Information**

V. **Academic Regulations**

VI. **College of Arts and Sciences**

VII. **School of Business Administration**

VIII. **School of Education and Allied Professions**

IX. **School of Engineering**

X. **Interdisciplinary, Experimental and Special Areas**

XI. **Directories**
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/.

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/ 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
- 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, Roesch Library, and St. Mary's Hall

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, and 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 6:00 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 931-31 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. Students fill out these dates as part of the on-line admission process.

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 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.
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 include theatrical productions, lectures, dance ensembles, and recitals and concerts 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 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 Hanger 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, Flyer News, Flyer TV, Orpheus, 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.

The office is also responsible for registering all student organization-sponsored events, granting recognition to all student organizations, providing assistance for organization advisors, publicity approval, programming the Flyer TV information channel, coordinating campus-wide events, and planning leadership workshops and retreats. The office works directly with commuter students, Flyer News, Flyer Radio, Daytonian, Orpheus, Campus Activities Board, Distinguished Speakers Series, Christmas on Campus, and all professional, honorary, academic, and special interest organizations.
Office of Educational and Special Programs

Student Development has identified some of the major concerns that students face during their college career as critical issues. These issues directly relate to students' life experiences outside of the classroom which impact all aspects of students' growth, development and success at the University of Dayton. Critical Issues Education is responsible for developing and implementing educational efforts to address the inter-related issues of substance use and abuse; relationships; sexuality, including gay, lesbian, bisexual, and transgender issues; sexual assault prevention; depression and suicide; body image and eating disorders; and other wellness-related topics.

Critical Issues Education has developed a number of initiatives to raise awareness of these issues on campus. Students, faculty and staff are encouraged to become involved with efforts such as: S.T.A.R.T. (Students Talking About Real Topics) a group of undergraduate students that presents programs on residence hall floors, for student organizations and in the classroom. Sexual Assault peer educators present programs primarily in the residence halls.
Office of Multicultural Affairs

The University of Dayton is committed to creating an environment that celebrates cultural diversity while focusing on the Marianist philosophy of service, leadership, and community. The division of Student Development provides facilities and services to support multicultural undergraduate students through the Office of Multicultural Affairs. This support often assumes the form of special programming that reflects the cultural heritage of our students, as well as supplemental counseling and advising. The staff in the Office of Multicultural Affairs works closely with academic deans, faculty members, and other administrative offices to provide a nurturing community that promotes academic success.
Office of Student Learning Services (SLS)

The Ryan C. Harris Learning Teaching Center (LTC) Office of Student Learning Services (SLS) is a learning resource for students, parents, faculty and staff at the University of Dayton. We offer a wide variety of services to assist all students in achieving academic success at the university.

Academic Coaching
Professional staff meet individually with students to:

- Discuss the student's academic goals
- Help motivate the student toward success
- Provide information about a variety of study skills

ARCC | Academic Renewal Course & Coaching Program

- A one-credit, six-week course for any student who wants to learn more about how to be successful at UD or who may be struggling academically
- Focus on self-assessment and academic success planning
- Individual coaching sessions with the instructor through the end of the semester
- Limited seats available each semester by permission of SLS staff

Drop-In Tutoring

- Free tutoring available to all students for many general education courses
- Tutoring conducted by undergraduates who receive on-going training & supervision
- Evening hours

Faculty and Staff Consultation

- Presentations and workshops covering topics related to learning and teaching for faculty and staff
- Assistance with implementation of learning, teaching, and student support strategies
- Consultation about academic needs of students with and without disabilities

Online Resources

- Links to materials for use in class or individually by students: study tips and self-assessments
- GPA calculator
- Time management downloads including planners and schedules

Services for Students with Disabilities

- Individual consultation with students about their disabilities and how best to coordinate accommodations
- Academic and testing accommodations for qualified students with disabilities
- On-going disability management advising
- Assistive technology evaluation and training
- Alternative format production

* For more information, see the Students with Disabilities section.
SI | Supplemental Instruction

- Group meetings with a student leader in addition to class.
- Assist students in mastering course material through discussion and hands-on activities

Student Consultation

- Regarding any academic issues in single or multiple sessions
- Referrals to campus and community resources
- Disability screenings

Workshops by Request

- Topics related to learning, teaching and support for student learning
- Stand-alone or series workshops

Write Place, LTC Office of Writing, Research & New Media

- Free peer-to-peer writing support for students
- Free Digital Drop-Off service for feedback at any stage of the writing process
- Afternoon and evening hours
Office of Student Learning Services: Students with Disabilities

The University of Dayton is committed to including individuals with disabilities as full participants in its programs, services and activities through compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act of 2008.

Services for students with disabilities at the University of Dayton are provided through the Ryan C. Harris Learning Teaching Center (LTC) Office of Student Learning Services (SLS). SLS ensures that qualified students with disabilities have equal access to educational opportunities at the University of Dayton so they can participate freely and actively in all facets of university life.

For Students with Disabilities, the Office of Student Learning Services:

- Ensures reasonable approved accommodations to students with disabilities registered with SLS. Visit our website http://learningservices.udayton.edu/ for more information on registration with SLS.
- Assists in the interactive process between students and faculty for determining and implementing reasonable approved accommodations. To use classroom and/or testing approved accommodations, students registered with SLS must complete the Self-identification process described below.
- Assists the university in complying with the provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 (ADA), and the ADA Amendments Acts of 2008.
- Encourages the development of self-advocacy and self-determination skills.
- Assists the university community in understanding the concept and the realities of disability and in working to eliminate the physical, technical, and attitudinal barriers that limit the range of opportunities for students with disabilities.

The Self-Identification Process

Students with disabilities who are registered in SLS are entitled to reasonable approved accommodations from the University of Dayton. Students eligible to receive reasonable approved accommodations in classroom or testing settings may request a Self-Identification Form from SLS. This form identifies recommendations for reasonable accommodations based upon the individual student's documented disability. This process includes consultation between the student and SLS Disability Staff to determine specific individualized needs.

Students hand-deliver a completed Self-Identification Form to the professor of the course for which they are requesting accommodations. With delivery of the form, a student initiates a discussion with the professor regarding implementation of approved reasonable accommodations. Since all students are ultimately responsible for their own academic achievement, the decision of whether to utilize agreed upon reasonable approved accommodations is the student's responsibility.

Roles and Responsibilities of Students, Faculty, and SLS Disability Staff

Students have the right to:

1. Freedom from discrimination based on their disability.
2. Confidentiality in keeping with University policy and federal law.
3. Equal access to programs and services offered at the University of Dayton.
4. An appointment to file an appeal or grievance with the University 504 Compliance Officer if needed.
5. Timely and effective implementation of reasonable accommodations.

Students have the responsibility to:

1. Register with SLS Disability Staff and provide appropriate disability documentation.
2. Contact Disability Staff to request reasonable accommodations.
3. Provide their professors with a copy of their Self-Identification Form.
4. Meet and discuss with their professors how approved accommodations will be implemented.
5. Provide adequate notice for accommodations requests as delineated in the Services for Students with Disabilities Handbook.
6. Inform Disability Staff if there are difficulties working out arrangements for reasonable approved accommodations.
7. Fully participate in the interactive process for determining and implementing reasonable approved accommodations.

Faculty have the right to:

1. Uphold policies contained in the University of Dayton Student Handbook and/or academic regulations for all students regardless of ability or disability.
2. Appeal the recommendations for reasonable approved accommodations if a reasonable accommodation would result in a fundamental alteration of the program.

Faculty have the responsibility to:

1. Include a statement regarding accommodations in their course syllabus. In addition, faculty should bring this statement to the attention of students in the first class meeting of the semester.
   Suggested syllabus statement:
   "I would like us to discuss ways to ensure your full participation in this course. If you feel you need an accommodation based on the impact of a disability, please contact me privately to discuss your Self-Identification Form as provided by the LTC Office of Student Learning Services (SLS). It is important that you be registered with SLS and notify me of your eligibility for reasonable accommodations in a timely manner, and make special arrangements in case of an emergency building evacuation. For more information about disability services at the University of Dayton, please contact SLS at 937-229-2066, by email at disabilityservices@udayton.edu or stop by SLS in the LTC room 023."
2. Discuss requests with the student. Once a student has presented a Self-Identification Form from SLS, faculty has an obligation to enter the process for reasonable accommodations via a discussion with the student regarding how to implement reasonable accommodations.
3. Contact Disability Staff by calling 229-2066 if they have any concerns after meeting with the student about reasonable accommodations. Eligible students are entitled to SLS-approved reasonable accommodations until concerns are resolved.
4. Refer students to SLS Disability Staff if a student brings disability documentation directly to faculty.

SLS Disability Staff has the responsibility to:

1. Determine eligibility of a student with a disability based on appropriate disability documentation provided by a qualified professional.
2. Ensure reasonable accommodations to qualified students with disabilities.
3. Determine reasonable accommodations with the student and other University officials, when necessary.
4. Assist the University in complying with the provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 (ADA), and the ADA Amendments Act of 2008.
5. Encourage the development of self-advocacy and self-determination skills.
6. Provide confidentiality of student records according to FERPA regulations and other relevant statutes.
7. Assist the university community in understanding the concept and the realities of disability and in working to eliminate the physical, technical, and attitudinal barriers that limit the range of opportunities for students with disabilities.

Registration with SLS:

Students must provide SLS Disability Staff with disability documentation, which may include medical or psychological records from a qualified professional. Disability documentation must substantiate a disability under Section 504 of the Rehabilitation Act of 1973 or Title III of the Americans with Disabilities Act of 1990 or the ADA Amendments Act of 2008. Visit our website http://learningservices.udayton.edu/ for more information on documentation guidelines.

Please forward disability documentation to:

University of Dayton
Student Learning Services
Attn: SLS Disability Staff
300 College Park
Dayton, OH 45469-1302
Fax Number: (937) 229-3270

* For additional information on services available to all students see the LTC Office of Student Learning Services section.
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

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

In order to attain this goal, professional, graduate, and undergraduate staffs in the Department of Residence Life are creating living and learning environments within University residence halls, suites, apartments, and houses. A student elected governance board or council represents residential student opinions and assists the residence life staff in providing programmatic initiatives for each on-campus living area.

All first-year and second-year students are required to live in UD housing unless they are married, are twenty-one years of age or older, or are local residents living with their legal guardian at their permanent residence within 40 miles of the University of Dayton campus. Junior and senior students have the opportunity to live in UD apartments and houses or to choose to live in non-University housing.

Upon official acceptance to the University of Dayton, the Office of Enrollment Management provides students with information and instructions for securing residential living accommodations. Questions regarding housing can be directed to Residence Life at 937-229-3317 or email housing@notes.udayton.edu or visit the Residence Life website at http://housing.udayton.edu.
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. This booklet 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.
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, 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 admit students who possess the intellectual ability and the motivation to thrive at the University of Dayton.
Application for Admission

Applications for first-year admission should be submitted to the Dean of Admission through the University of Dayton's online application or the Common Application. The paper application has a $50 application fee. This $50 fee is waived if the electronic version of the Common Application or the University's application is submitted. Students are encouraged to submit applications early in their senior year of high school. The University of Dayton has an early action deadline of December 15 and a regular decision deadline of March 1.

Along with the application (including the essay), the applicant must submit an official transcript of courses and grades in secondary school, official results of the ACT or SAT, and the counselor recommendation form. Any person whose native language is not English must submit an acceptable score on the Test of English as a Foreign Language (TOEFL), the English Language Proficiency Test (ELPT), the Advanced Placement International English Language (APIEL) Examination or the International English Language Testing System (IELTS). Exceptions to this policy may be made for students whose education has been in schools where English is the principal language of instruction.

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

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

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

Additional indicators of academic aptitude are scores received on the ACT, SAT, and, when applicable, the Test of English as a Foreign Language (TOEFL). The recommendation of the high school guidance counselor concerning ability, motivation, and character is reviewed by the admission committee.

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

Entrance Unit Recommendations

<table>
<thead>
<tr>
<th>College Major</th>
<th>English</th>
<th>Foreign Language</th>
<th>Algebra I</th>
<th>Geometry</th>
<th>Algebra II, Trigonometry</th>
<th>Mathematics IV</th>
<th>Biology</th>
<th>Chemistry</th>
<th>Physics</th>
<th>Laboratory Science</th>
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<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education, Sport Management</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Numbers represent academic units (years) of recommended high school preparation.
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry, Biology, Chemistry, Environmental Biology, Premedicine/Predentistry</td>
<td>4 2 1 1 1 1 1 1</td>
<td>3</td>
</tr>
<tr>
<td>Applied Mathematical Economics, Computer Science, Mathematics, Physical Science, Physics, Physics-Computer Science</td>
<td>4 2 1 1 1 1 1 4</td>
<td></td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>4 2 1 1 1 1 1 4</td>
<td></td>
</tr>
<tr>
<td>Geology, Environmental Geology</td>
<td>4 2 1 1 1 1 1 5</td>
<td></td>
</tr>
</tbody>
</table>
Advanced Standing by Examination

Advanced Placement (AP)

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

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

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

College Level Examination Program (CLEP)

The University of Dayton also participates in the College Level Examination Program (CLEP), sponsored by the College Board. CLEP offers examinations in specific subjects. Since not all subject examinations are acceptable and some subject examinations require a free response section (essay), please contact Testing Services at the University of Dayton at 937-229-3277 for information.

General Certificate of Education A-Level Examinations

GCE A-Level examinations are based on a British secondary school program of college-level work and standardized examinations. To receive credit for GCE A-Level examinations, submit official test results to the Office of the Dean. A-Level examinations with a grade of "E" or better will be considered for credit.

International Baccalaureate

The IB Programme is a rigorous preuniversity course of studies leading to examinations. Each examined subject is graded on a scale of one (minimum) to seven (maximum). Diploma candidates are required to select one subject from each of the six available groups. At least three and not more than four subjects are taken at higher level while others are taken at standard level.

IB is administered through the Office of the Dean in the College of Arts and Sciences. Based on results of IB higher level examinations, students may receive transfer credit. Credit is not awarded for standard level examinations.
High School Scholars

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

Academic Programs

International students applying for an undergraduate program should submit the online Application for Undergraduate Admission and Scholarship or the Common Application and follow the general admission procedure outlined in the application instructions. The paper application has a $50 application fee. This $50 fee is waived if the electronic version of the Common Application or the University's application is submitted. The applicant whose native language is not English must demonstrate a score of 523 (paper-based), 193 (computer-based), or 70 (Internet-based) on the Test of English as a Foreign Language (TOEFL). A minimum score of 966 on the English Language Proficiency Test (ELPT), a minimum score of three (3) on the Advanced Placement International English Language (APIEL) Examination or a minimum Band 6 score on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

International students applying for a graduate program are strongly encouraged to submit the online Application for Graduate Admission; however, a paper application may be requested from the Office of Graduate Admission Processing if they are unable to complete an online application. There is a $50 (U.S.) fee for submitted applications, and the application cannot be processed until the fee is received. Students should follow the general admission procedure outlined in the application instructions. The applicant whose native language is not English must demonstrate a score of 550 (paper-based), 213 (computer-based), or 80 (Internet-based) on the Test of English as a Foreign Language (TOEFL). A minimum Band 6.5 score on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

Undergraduate and graduate applicants unable to demonstrate the required TOEFL score or the equivalent for their level of study at the time of application may be considered for conditional admission. Such a student will be expected to attend the University of Dayton's Intensive English Program and successfully complete the program or obtain the required TOEFL score for their level of study before full admission to an academic program will be granted.

For all students applying to an academic program, an official copy of the student's complete academic record of all previously attended secondary schools, colleges or universities must be received. This record must include dates of attendance, all subjects studied, grades earned and marks achieved on examinations. These documents must be accompanied by a certified English translation if the documents are not in English. Documents must be sent directly from the institution to the University.

Intensive English Program

Students wishing to study English as a second language may enroll in the University's Intensive English Program. Students may apply for admission to the Intensive English Program only or they may apply for conditional admission to an academic program at the University of Dayton. If a student seeking conditional admission completes an application to an academic program, a separate application for the Intensive English Program is not required.

Applicants to any of the above University programs requiring a student visa must present a letter of financial support and an original bank statement showing sufficient funds to cover the first year of study.
Other pertinent information may be obtained from the Associate Director of International Admission.
Programs for Select At-Risk Students

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

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

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

Students from accredited institutions may be considered for transfer to the University of Dayton provided they are in good standing socially and academically (minimum of a C average-2.0 cumulative grade point average). Possession of the minimum grade point average for consideration does not imply admissibility to the University. Most areas of study prefer a 2.5 or higher grade point average for admission.

Transfer students will be considered for admission after they have followed the regular admission procedure. Applicants for transfer admission may submit the University of Dayton’s online application or the Common Application. ACT or SAT scores are required of transfer applicants under 21 years of age. All students applying to the School of Education and Allied Professions, including those over age 21, are required to submit ACT or SAT scores, along with Praxis I scores. All transfer candidates must submit official transcripts from all institutions previously attended. The Office of Admission will evaluate the transcript(s) to determine the number of transferable credits. In general, all college credits earned with a "C" (2.0 on a 4.0 scale) or higher from any regionally accredited college or university will transfer and be included on the University of Dayton transcript. No credit will be given for a course in which the student earned below a "C". The evaluation to determine which courses will be accepted toward the degree will be completed by the dean’s office of the appropriate college or school.

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

All departments at the University have been approved by the State Approving Agency for Veterans' Training. Please contact the Veteran's Certifying Official to inquire as to whether your major is listed among those approved by the State Approving Agency. The Veterans Affairs Office is located in Albert Emanuel Hall, first floor, and will assist in processing the necessary forms for educational benefits. A student who is receiving V.A. benefits and decides to change majors is required to complete and sign a V.A. Change of Program Form, which can be obtained through UD's Veterans' Affairs office. Failure to follow this procedure may result in cancellation of benefits by the V.A. For the conditions for good academic standing, visit Academic Standing in Section V, Academic Regulations. If a veteran on probation fails to acquire the required cumulative grade point average at the end of the veteran's next full-time term, the benefits from the V.A. cease.

Explore General Information:

I. The University of Dayton
II. Student Life and Services
III. Admission
   • Application for Admission
   • Considerations for Admission
   • Advanced Standing by Examination
   • High School Scholars
   • International Students
   • Programs for Select At-Risk Students
   • Transfer Students
   • Veterans
IV. Financial Information
V. Academic Regulations
VI. College of Arts and Sciences
VII. School of Business Administration
VIII. School of Education and Allied Professions
IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
XI. Directories
Financial Information

Please select a subsection using the menu to the right.
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 the fall and spring terms, in five monthly payments with a 1% per month finance charge assessed on the ending balance. A one-time signed open credit agreement is required unless full payment is made initially. 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 2009-10 academic year (fall and spring terms) will total about $28,690.00 (includes the Basic University Fee) plus laboratory and/or special course fees where applicable. Room and board on campus for this period would be approximately $9,190.00, based on double room occupancy, any 12 meals a week 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 lunches should be considered in the budget.
Undergraduate Tuition and Fees August 2009 through July 2010

Fees Payable One Time

Application fee (online registration required) Free
Application Fee, international or graduate students (online free) $50.00
Counseling Center fee, payable once, at entrance $100.00
Orientation fee, payable once, first-year resident students only $160.00
Orientation fee, payable once, first-year commuter students only $150.00
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 $13,755.00
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.) $917.00
3/4-time undergraduate student (8-11 semester hours), per term $10,316.00
Part-time undergraduate student (1-7 semester hours), per semester hour $917.00
Audit course, per undergraduate semester hour $459.00

Basic University Fee, Terms I and II

Full-time and 3/4-time student (8 or more semester hours), per term $590.00
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 $870.00

Course Fees, Terms I and II

Fees are listed with the course names and times in each term's course composite.

Student teacher fees:
Yearly special fee - seniors $125.00
Yearly special fee - first-year, sophomores, and juniors $130.00

Tuition and Fees, Term III

Tuition per semester hour $917.00
Basic University fee $25.00
Laboratory and course fees: Same as in Terms I and II but no surcharge for engineering; laboratory fees will be charged per clock hour.

Other Charges

*Late registration service charge:*
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 $90.00
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
Finance charge - 1% monthly on ending balance if total amount due is not paid by the due date following the month of initial charge.

Full-time and 3/4-time Students

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

Part-time Students

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

Special Students

Special students and 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.

Receipt of written documentation noting a student's withdrawal from UD is required to Residential Services before June 1 to avoid cancellation charges. 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 and housing credits will be given according to the following schedule:

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

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

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

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

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

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

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

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

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

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

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

Special rules may apply for students who withdraw and who received Title IV funds. Please contact the Office of Financial Aid if additional information is needed.
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.
Room and Board, per term, Terms I and II August 2009 through May 2010

<table>
<thead>
<tr>
<th>Residence Halls</th>
<th>Single</th>
<th>Double</th>
<th>Quad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marycrest Complex</td>
<td>$3,695.00</td>
<td>$2,835.00</td>
<td>NA</td>
</tr>
<tr>
<td>Stuart Complex</td>
<td>NA</td>
<td>$2,835.00</td>
<td>NA</td>
</tr>
<tr>
<td>Founders Hall</td>
<td>$3,330.00</td>
<td>$2,480.00</td>
<td>NA</td>
</tr>
<tr>
<td>Marianist Hall</td>
<td>NA</td>
<td>$2,835.00</td>
<td>$3,270.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Apartments, Suites, Undergrad Houses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus South Apartments</td>
</tr>
<tr>
<td>Lawnview Apartments</td>
</tr>
<tr>
<td>Garden Apartments (2 students per apartment)</td>
</tr>
<tr>
<td>Garden Apartments (4 or 6 students per apartment)</td>
</tr>
<tr>
<td>Virginia W. Kettering Suites House</td>
</tr>
<tr>
<td>Single Bedroom House</td>
</tr>
<tr>
<td>New House</td>
</tr>
<tr>
<td>Renovated House</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ArtStreet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loft (4 students)</td>
</tr>
<tr>
<td>Townhouse (6 students)</td>
</tr>
</tbody>
</table>
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 found at http://housing.udayton.edu/current/forms/commuter_info.html is required from first- and second-year students requesting to commute from a parent's/legal guardian's permanent residence.

Each student applying for a University residence facility must complete an online residential living contract with Residence Life. The contract covers both the fall and spring terms of the academic year. Once a contract is signed, it may not be canceled without incurring substantial cost as long as the student is enrolled at the University. The online residential contract is located on our website at http://housing.udayton.edu/php/contracts/index.php.

Those students dropping all courses and checking out of housing during the first four weeks of school will be authorized refunds as stated under "Cancellations and Cancellation Fee", http://housing.udayton.edu/current/contract_cancellation.htm.

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 12 MEAL PLAN (12 meals per week) - $1,660.00
- Any 15 MEAL PLAN (15 meals per week) - $1,780.00
- All 21 MEAL PLAN (3 meals per day, 7 days) - $1,910.00
- The Flex Plan (debit account) - $1,730.00
- The Mega Flex Plan (debit account) - $1,950.00
- The Super Flex Plan (debit account) - $2,080.00

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

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

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

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

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

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

Undergraduate Prepayment Plan - The University of Dayton’s monthly prepayment plan, which is serviced through Tuition Management Systems (P.O. Box 842722, Boston MA 02284), is a convenient alternative to lump sum semester payments. Any parent, guardian or student is eligible for this plan. Application materials may be obtained by calling 1-800-722-4867. Features of the plan include:

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

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

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

The FAFSA should be submitted via the Internet at http://www.fafsa.ed.gov to enable the quickest processing time. We recommend that students submit the FAFSA to the federal processor by March 1 to ensure that the University of Dayton receives the results by the priority deadline date of May 1. Students must reapply for financial aid each year and list UD's federal code (003127) on each application. In order to sign the FAFSA online, a dependent student and at least one of his or her parents must possess a federal PIN number. To apply for a PIN the appropriate parties should visit http://www.pin.ed.gov. Students are encouraged to call our office or meet with a financial aid counselor if they have questions regarding financial aid.
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 range from $1,000 to full tuition and each scholarship is renewable for eight undergraduate terms. To remain eligible for these scholarships, recipients must maintain the required 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 are eligible to apply for endowed scholarships. Recipients are selected on the basis of academic accomplishments, leadership, 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.

Application Procedure

Upper-class scholarship applications are available online at http://www.finaid.udayton.edu from approximately January 15 through February 15 each year.
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 937-229-3938 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 is authorized to select students as nominees for scholarships offered by certain corporations, business firms, service groups and friends of the University.
Grants

Academic Competitiveness Grant

This is a new grant program (as of July 1, 2006) awarded to full-time students who attend a degree-granting institution, are U.S. Citizens, and are eligible for the Federal Pell Grant. The grant is available to first-year students who graduated from high school after January 1, 2006, as well as second year students who graduated from high school after January 1, 2005. Students must complete the FAFSA for consideration.

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.

National SMART Grant

To receive a National SMART Grant, a student must:

- receive a Federal Pell Grant
- be a U.S. citizen or eligible noncitizen
- be a full-time student in the third or fourth academic year of an undergraduate degree program
- be pursuing a major in physical, life, or computer sciences, mathematics, technology, engineering or a critical foreign language
- have at least a 3.0 grade point average as of the beginning of each semester

University Founder's Grant

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

Federal TEACH Grant

The new 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 5.00%, but interest will not accrue until the repayment cycle begins. Repayment can be spread over a ten-year period.

Federal Stafford Loans

Federal Stafford 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 Stafford loan, Subsidized Stafford loan, or a combination of both. The Unsubsidized Stafford loan has a fixed interest rate of 6.8% and the Subsidized Stafford loan has a fixed interest rate of 5.6%.

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. Repayment begins within sixty days after the loan is fully disbursed. During the repayment period a fixed interest rate of 8.5% is charged. Repayment can be spread over a ten-year period and parents have the option to defer payments until their dependent student graduates.

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.
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 visit the Office of Student Employment, Room 148 of Albert Emanuel Hall.
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.

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 are 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 UD's Office of Scholarships and Financial Aid

Ohio War Orphans Scholarship
- Available to children of deceased/disabled Ohio war veterans
- Apply by contacting the Ohio Board or Regents
- Deadline July 1
Explore General Information:

I. The University of Dayton
II. Student Life and Services
III. Admission
IV. Financial Information
V. Academic Regulations
   • General Requirements
   • Competency Program
   • First-Year Experience Program
   • General Education Requirements
   • Courses Approved for General Education
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VI. College of Arts and Sciences
VII. School of Business Administration
VIII. School of Education and Allied Professions
IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
XI. Directories
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.
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.
Competency Program

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

Reading and Writing General Competencies

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

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

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

Oral Communication General Competencies

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

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

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

Quantitative Reasoning General Competencies

In order to graduate, students are required to satisfy the Quantitative Reasoning Competencies. There are 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 based on AP examinations, or earn appropriate transfer credit.

MTH 129
MTH 137
MTH 138
MTH 148
MTH 149
MTH 168
MTH 169
MTH 218

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 MH 207 based on AP examinations, or earn appropriate transfer credit.

MTH 114
MTH 205
MTH 207

If you have questions, please contact Dr. Joe Mashburn, Chairperson of the Department of Mathematics, at Joe.Mashburn@notes.udayton.edu.

Information Literacy General Competencies

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

Graduation Competencies

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

Domains of Knowledge

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

Arts Study: The experience of generations confirms that life is enriched immeasurably by experiencing the world through the arts. Every student should develop some understanding of 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 or HST 198, will be taken as part of the Humanities Base.

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

Introductory courses in both philosophy and religious studies are required as part of the Humanities Base.

Physical and Life Sciences: The physical and life sciences and technology have affected the quality of life in every age, but never more than in the present. The potential of science and technology for both good and evil will undoubtedly increase in the future. It is essential, therefore, that educated citizens understand the methods of science and its application through technology. For these reasons students must take two courses in the physical and life sciences and technological applications.
Social Sciences: Educated members of society need to understand the dynamics through which people relate to each other as individuals, in groups, and as producers and consumers of goods and services. Effective relationships sustain us as members of families, professions, nations, and the global community. Students, therefore, must take at least one course in the social sciences.

Structure of General Education Requirements

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

Humanities Base

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

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

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

Thematic Clusters

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

Completing General Education Requirements

At the maximum, students could enroll in as many as seven thematic cluster courses in the appropriate domains of knowledge. These courses, combined with the Humanities Base, would fulfill all General Education requirements. In most cases, however, students will have to complete some domain of knowledge requirements outside of the courses serving a thematic cluster. With their advisors' approval, students may elect to take any designated General Education course within the appropriate domain to help satisfy requirements. Many of the courses listed as approved courses under a domain of knowledge will also serve the same purpose as a course in a thematic cluster. You can view courses that have been approved by the University for General Education credit by visiting http://gened.udayton.edu.
Each department determines whether its majors are free to choose from among all the approved nonrestricted courses, or are to choose from among a limited number of approved courses, or are required to take only specific approved courses. The University has approved some courses for certain majors exclusively, and those courses are, therefore, restricted to those majors for General Education credit. Students should consult their advisors to learn which courses are permissible in their own majors.
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 102, ENG 114, or ENG 198). This requirement may be satisfied by Arts Study courses that are either included in or independent of a thematic cluster. General Education courses that satisfy this requirement are:

ASI 341 SPECIAL TOPICS IN ARTS STUDY
Restrictions: Specific topics approved for designated cluster. Consult semester class schedule.

ASI 347 PHYSICS AND LITERATURE

ASI 351 CONSTRUCTING CIVILIZATION

ASI 357 VOCATION AND THE ARTS

CLA 203 CLASSICAL MYTHOLOGY

CMM 355 RHETORIC OF SOCIAL MOVEMENTS

ENG 151 INTRODUCTION TO LITERATURE

ENG 198 ENGLISH SCHOLARS' SEMINAR
Restrictions: Berry Scholars only

ENG 203 MAJOR BRITISH WRITERS

ENG 204 MAJOR AMERICAN WRITERS

ENG 205 MAJOR WORLD WRITERS

ENG 301 SURVEY OF EARLY ENGLISH LITERATURE

ENG 302 SURVEY OF LATER ENGLISH LITERATURE

ENG 305 SURVEY OF AMERICAN LITERATURE

ENG 306 SURVEY OF CONTINENTAL LITERATURE

ENG 320 CONTEMPORARY DRAMA

ENG 322 MASTERPIECES OF WORLD LITERATURE

ENG 323 LITERATURE OF THE CHRISTIAN TRADITION

ENG 333 IMAGES OF WOMEN IN LITERATURE

ENG 334 MODERN MEN--IMAGES

ENG 335 AFRICAN AMERICAN LITERATURE

ENG 336 GENDER IN FICTION

ENG 338 IMAGES OF BUSINESS

ENG 339 AMERICAN INDIAN LITERATURE

ENG 340 THE PRISON IN LITERATURE

ENG 341 ASIAN AMERICAN LITERATURE

ENG 342 LITERATURE AND THE ENVIRONMENT

ENG 345 COLONIAL AND POSTCOLONIAL LITERATURE

ENG 348 MODERN IRISH LITERATURE

ENG 350 EUROPEAN LITERATURE OF ANTIQUITY

ENG 353 LITERATURE OF THE RENAISSANCE

ENG 354 LITERATURE OF THE ENLIGHTENMENT
ENG 355 LITERATURE OF THE ROMANTIC AGE
ENG 356 EUROPEAN LITERATURE OF THE NINETEENTH CENTURY
ENG 357 EUROPEAN LITERATURE OF THE EARLY TWENTIETH CENTURY
ENG 358 CONTEMPORARY LITERATURE OF EUROPE
ENG 362 SHAKESPEARE
ENG 363 SHAKESPEARE'S WORLDS
ENG 382 THE TRAGIC DILEMMA
Restrictions: for Core only
ENG 384 CHRISTIANITY AND MODERN POETRY
FRN 352 OLD WORLD MEETS NEW (ENG)
FRN 452 OLD WORLD MEETS NEW (FRN)
GER 351 GERMAN FILM
GER 351 SURVEY OF GERMAN LITERATURE I
GER 362 SURVEY OF GERMAN LITERATURE II
HMS 360 LATIN AMERICA THROUGH LITERATURE
MUS 201 MUSIC IN CONCERT
MUS 203 SIGHTS AND SOUNDS OF MUSIC
MUS 205 MUSIC, INSTRUMENTS, AND TECHNOLOGY
MUS 232 INTEGRATING THE ARTS: MUSIC
MUS 302 MUSIC HISTORY AND LITERATURE I, II
Restrictions: for MUE, MUS only
MUS 303 INTRODUCTION OF MUSICS OF THE WORLD
MUS 304 HISTORY OF AMERICAN MUSIC
MUS 305 AFRICAN-AMERICAN SACRED MUSIC
MUS 306 HISTORY OF AMERICAN JAZZ
MUS 307 DEVELOPMENT OF AMERICAN POPULAR SONG
MUS 309 OPERA HISTORY AND LITERATURE
MUS 310 MOZART'S OPERAS
MUS 325 BEETHOVEN AND HIS ERA
MUS 327 MUSIC IN FILM
MUS 328 HISTORY OF THE AMERICAN MUSICAL
MUS 350 SACRED MUSIC HISTORY
THR 105 INTRODUCTION TO THE THEATRE
VAE 232 INTEGRATING THE ARTS: VISUAL ARTS
VAH 101 INTRODUCTION TO THE VISUAL ARTS
VAH 201 SURVEY OF ART I
VAH 202 SURVEY OF ART II
VAH 203 SURVEY OF ART III
VAH 483 TWENTIETH-CENTURY ART II
VAR 220 VISUAL RESOURCES

Historical Study

All students must complete two Historical Study courses to satisfy General Education Requirements. The first Historical Study course, (HST 103, HST 198, or ASI 111), forms part of the Humanities Base. The second Historical Study course can be part of a thematic cluster or serve simply to satisfy that Domain of Knowledge requirement of General Education. The restriction on certain Historical Study courses apply both to the majors indicated and the second disciplines. (Education students should see checklists.) General Education courses that may satisfy the requirement for a second course in Historical Study are:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Restrictions</th>
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<tbody>
<tr>
<td>AMS 301</td>
<td>INTERPRETATIONS OF AMERICAN CULTURE</td>
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<tr>
<td>ASI 111</td>
<td>CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES</td>
<td>for Core only—meets HST and REL humanities base requirements</td>
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<tr>
<td>ASI 112</td>
<td>CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES</td>
<td>for Core only—meets HST cluster requirement and PHL Humanities Base requirement</td>
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<tr>
<td>ASI 342</td>
<td>SPECIAL TOPICS IN HISTORICAL STUDY</td>
<td>Specific topics approved for designated cluster. Consult semester class schedule.</td>
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<tr>
<td>CMM 350</td>
<td>PROPAGANDA ANALYSIS</td>
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<td>CMM 416</td>
<td>DEVELOPMENT OF MASS MEDIA</td>
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<td>GER 341</td>
<td>GERMAN CULTURE AND CIVILIZATION</td>
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<tr>
<td>HSS 275</td>
<td>HISTORY OF PHYSICAL EDUCATION AND SPORT</td>
<td>for HSS only</td>
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<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<td>HST 198</td>
<td>HISTORY SCHOLARS' SEMINAR</td>
<td>Berry Scholars only</td>
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<td>HST 251</td>
<td>AMERICAN HISTORY TO 1865</td>
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<td>HST 252</td>
<td>AMERICAN HISTORY SINCE 1865</td>
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<td>HST 302</td>
<td>HISTORY OF ANCIENT GREECE</td>
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<td>HST 307</td>
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<td>HST 308</td>
<td>SHAKESPEARE'S WORLDS</td>
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<td>HST 313</td>
<td>THE DUAL REVOLUTION AND ITS CONSEQUENCES - EUROPE 1815-1914</td>
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<td>HST 314</td>
<td>MODERN EUROPE IN DECLINE - 1890-1945</td>
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<td>HST 315</td>
<td>EUROPE IN THE POSTWAR ERA--1945 TO THE PRESENT</td>
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<td>HST 316</td>
<td>BEETHOVEN AND HIS ERA</td>
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<td>HST 322</td>
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<td>COMPARATIVE NATIONALISM</td>
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<td>HST 326</td>
<td>RUSSIA, THE SOVIET UNION AND BEYOND, 1860-PRESENT</td>
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<td>HST 327</td>
<td>NATIONAL CULTURES OF THE SOVIET UNION AND ITS SUCCESSOR STATES</td>
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<td>HST 328</td>
<td>HISTORY OF EASTERN EUROPE</td>
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<td>HST 330</td>
<td>HISTORY OF EAST ASIA TO 1800</td>
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<td>HST 333</td>
<td>THE MIDDLE EAST, NINETEENTH AND TWENTIETH CENTURIES</td>
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<td>HST 334</td>
<td>HISTORY OF THE PALESTINIAN-ISRAEL CONFLICT</td>
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<td>HST 335</td>
<td>HISTORY OF SOUTH ASIA</td>
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<td>HST 336</td>
<td>HISTORY OF AFRICA TO 19TH CENTURY</td>
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<td>HST 337</td>
<td>HISTORY OF AFRICA-19TH CENTURY TO THE PRESENT</td>
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<td>HST 338</td>
<td>STATE AND SECESSION IN SOUTH ASIA</td>
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<td>HST 340</td>
<td>HISTORY OF SCIENCE</td>
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<td>HST 341</td>
<td>HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY</td>
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<td>HST 342</td>
<td>ENVIRONMENTAL HISTORY OF THE AMERICAS</td>
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<td>HST 343</td>
<td>HISTORY OF CIVIL ENGINEERING</td>
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HST 349  TECHNOLOGY AND THE CULTURE OF WAR
HST 350  GAY AND LESBIAN U.S. HISTORY
HST 351  AMERICAN WOMEN'S AND GENDER HISTORY
HST 352  HISTORY OF THE AMERICAN FAMILY
HST 353  HISTORY OF WOMEN IN EUROPEAN SOCIETIES
HST 354  HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST
HST 355  AMERICAN URBAN HISTORY
HST 356  COMPARATIVE HISTORY OF WOMEN IN THE THIRD WORLD
HST 357  LATIN AMERICA IN THE TWENTIETH CENTURY
HST 358  SOCIAL AND CULTURAL HISTORY OF LATIN AMERICA
HST 359  HISTORY OF AMERICAN CITY PLANNING
HST 360  U.S. LEGAL AND CONSTITUTIONAL HISTORY I
HST 361  U.S. LEGAL AND CONSTITUTIONAL HISTORY II
HST 365  AMERICAN FILMS AS HISTORY
HST 370  ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES
HST 371  UNITED STATES WORKING CLASS
HST 372  HISTORY OF RELIGION IN THE UNITED STATES
HST 374  IRELAND AND AMERICA
HST 375  HISTORY OF U.S. FOREIGN RELATIONS
HST 376  SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
HST 377  CONTEMPORARY AMERICAN HISTORY
HST 378  HISTORY OF GLOBAL IMMIGRANTS TO THE UNITED STATES
HST 380  NATIVE AMERICAN HISTORY
HST 382  HISTORY OF MEXICO
HST 383  HISTORY OF THE CARIBBEAN
HST 384  ECONOMIC HISTORY OF LATIN AMERICA
HST 385  THE ATLANTIC WORLD, 1492-1800
HST 391  AMERICAN ARCHITECTURAL HISTORY AND PRESERVATION
HST 398  HISTORY OF BLACKS IN THE UNITED STATES, 1526-1900
HST 399  HISTORY OF BLACKS IN THE UNITED STATES SINCE 1900
MST 310  READING THE SIGNS OF THE TIMES
MUS 301  MUSIC HISTORY AND LITERATURE I
Restrictions: for MUE, MUS only
PSY 471  HISTORY OF PSYCHOLOGY
Restrictions: for PSY only
THR 415  HISTORY OF THE THEATRE I
Restrictions: for THR only
THR 425  HISTORY OF THE THEATRE II
Restrictions: for THR only
VAH 360  ART HISTORY AND FEMINISM
VAH 382  HISTORY OF PHOTOGRAPHY I
Restrictions: for PHO only
VAH 480  TWENTIETH-CENTURY ART I
Restrictions: for ART, EAR only

Philosophy

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

ASI 112  CORE INTEGRATED STUDIES: THE ROOTS AND
DEVELOPMENT OF MODERN CULTURES AND VALUES
Restrictions: for Core only—meets HST cluster requirement and
PHL Humanities Base requirement
ASI 323 CITIES AND SUBURBS: THE INFLUENCE OF PLACE
ASI 343 SPECIAL TOPICS IN PHILOSOPHY STUDY
Restrictions: Specific topics approved for designated cluster.
Consult semester class schedule.
ASI 371 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY SBA
Restrictions: for Core only
ASI 372 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY EDU
Restrictions: for Core only
ASI 373 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY ENGR
Restrictions: for Core only
ASI 374 PROFESSIONAL ETHICS IN A GLOBAL COMMUNITY PHL
Restrictions: for Core only
EDT 301 PHILOSOPHY OF EDUCATION
Restrictions: for Education only; Course removed from general
education 12/05/02
EDT 302 CATHOLIC PHILOSOPHY OF EDUCATION
Restrictions: for Education only; Course removed from general
education 12/05/02
EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION
Restrictions: for Education only
MST 311 READING THE SIGNS OF THE TIMES
PHL 103 INTRODUCTION TO PHILOSOPHY
PHL 201 PRACTICAL LOGIC
PHL 302 SYMBOLIC LOGIC
PHL 304 PHILOSOPHY OF HUMAN NATURE
PHL 306 PHILOSOPHY OF KNOWLEDGE
PHL 307 PHILOSOPHY AND WOMEN
PHL 308 METAPHYSICS
PHL 309 PHILOSOPHY OF MIND
PHL 310 SOCIAL PHILOSOPHY
PHL 311 PHILOSOPHY OF RELIGION
PHL 312 ETHICS
PHL 313 BUSINESS ETHICS
PHL 314 PHILOSOPHY OF LAW
PHL 315 MEDICAL ETHICS
PHL 316 ENGINEERING ETHICS
PHL 317 ETHICS AND MODERN WAR
PHL 318 FAMILY ETHICS
PHL 319 INFORMATION ETHICS
PHL 320 PHILOSOPHY OF ART
PHL 321 ENVIRONMENTAL ETHICS
PHL 323 PHILOSOPHY AND LITERATURE
PHL 324 PHILOSOPHY AND FILM
PHL 325 PHILOSOPHY OF MUSIC
PHL 327 PHILOSOPHY OF PEACE
PHL 328 PHILOSOPHY OF PUNISHMENT
PHL 330 PHILOSOPHY OF SCIENCE
PHL 331 SCIENCE, OBJECTIVITY, AND VALUES
PHL 332 TECHNOLOGY AND VALUES
PHL 333 PHILOSOPHY AND COGNITIVE SCIENCE
PHL 334 PHILOSOPHY OF ECOLOGY
PHL 345 PHILOSOPHY SCHOLARS' SEMINAR  
**Restrictions:** Berry Scholars only  

PHL 350 CLASSICAL GREEK PHILOSOPHY  

PHL 351 MEDIEVAL PHILOSOPHY  

PHL 352 MODERN PHILOSOPHY  

PHL 353 KANT AND NINETEENTH-CENTURY PHILOSOPHY  

PHL 354 TWENTIETH-CENTURY PHILOSOPHY  

PHL 355 ASIAN PHILOSOPHY  

PHL 356 CHRISTIAN PHILOSOPHY  

PHL 357 RADICAL PHILOSOPHY  

PHL 358 MARXIST PHILOSOPHY  

PHL 360 EXISTENTIALISM  

PHL 361 AMERICAN PHILOSOPHY  

PHL 363 AFRICAN PHILOSOPHY  

PHL 364 RACE, GENDER, AND PHILOSOPHY  

PHL 365 PHILOSOPHY AND CULTURE  

PHL 370 POLITICAL PHILOSOPHY  

PHL 371 PHILOSOPHY AND HUMAN RIGHTS  

PHL 372 VALUES AND ECONOMICS  

PHL 373 PHILOSOPHY AND CULTURAL DIVERSITY  

PHL 375 ETHICAL THEORY  

**Religious Studies**  

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

ASI 111 CORE INTEGRATED STUDIES: THE ROOTS AND DEVELOPMENT OF MODERN CULTURES AND VALUES  
**Restrictions:** for Core only--meets HST and REL humanities base requirements  

ASI 324 CITIES AND SUBURBS: THE INFLUENCE OF PLACE  

ASI 344 SPECIAL TOPICS IN RELIGIOUS STUDY  
**Restrictions:** Specific topics approved for designated cluster. Consult semester class schedule.  

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

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

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

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

MST 312 READING THE SIGNS OF THE TIMES  

REL 103 INTRODUCTION TO RELIGION  

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

REL 300 SELECTED RELIGIONS OF THE EAST  

REL 304 HINDUISM  

REL 305 EASTERN ORTHODOXY  

REL 306 BUDDHISM  

REL 307 JUDAISM  

REL 308 ISLAM
REL 309 AFRO-LATIN RELIGIONS
REL 310 THE PENTATEUCH
REL 311 THE PROPHETS
REL 312 THE PSALMS AND THE WISDOM LITERATURE
REL 315 THE GOSPELS
REL 316 NEW TESTAMENT THEOLOGIES
REL 318 STUDIES IN PAUL
REL 319 THE BOOK OF REVELATION
REL 323 HISTORY OF CHRISTIANITY I (100-1100)
REL 324 HISTORY OF CHRISTIANITY II (1100-PRESENT)
REL 326 PROTESTANT CHRISTIANITY
REL 327 U.S. RELIGIOUS EXPERIENCE
REL 328 U.S. CATHOLIC EXPERIENCE
REL 329 AFRICAN-AMERICAN RELIGION
REL 344 CHRISTIAN MARRIAGE
REL 356 THE CHRISTIAN TRADITION OF PRAYER
REL 358 LIBERATION THEOLOGY
REL 360 CHRISTIAN ETHICS
REL 362 CHRISTIAN FAMILY VALUES AND TELEVISION
REL 363 FAITH AND JUSTICE
REL 365 CHRISTIAN ETHICS AND THE ENVIRONMENT
REL 366 THE HOLOCAUST: THEOLOGICAL AND RELIGIOUS RESPONSES
REL 367 CHRISTIAN ETHICS AND HEALTH CARE ISSUES
REL 368 CHRISTIAN ETHICS AND THE BUSINESS WORLD
REL 369 CHRISTIAN ETHICS AND ENGINEERING
REL 372 RELIGION AND FILM
REL 373 RELIGION AND LITERATURE
REL 374 RELIGION AND THE ARTS
REL 375 RELIGION AND SCIENCE
REL 376 THEOLOGY AND THE SOCIAL SCIENCES
REL 377 THE INNER JOURNEY IN MYTH, BIBLE, AND LITERATURE
REL 383 PHILOSOPHY OF RELIGIOUS EDUCATION
REL 429 MODERN CATHOLICISM
REL 437 SIGNIFICANCE OF JESUS
REL 440 THE CHURCH
REL 441 THEOLOGY OF MARY
REL 442 GOD AND ATHEISM
REL 443 THE SACRAMENTS
REL 444 GOD IN CHRISTIAN TRADITION
REL 446 CHRISTIAN LITURGY
REL 447 SELECTED CATHOLIC DOCTRINES
REL 471 WOMEN AND RELIGION
REL 472 ECOLOGY AND RELIGION
REL 474 WOMEN AND THE GLOBAL CHURCH
REL 488 SPIRITUALITY AND RELIGIOUS EDUCATION

Physical & Life Science

All students must complete two Physical and Life Sciences courses to satisfy General Education Requirements. This requirement may be satisfied by Physical and Life Science courses that are included in or independent of a thematic cluster. Students should consult with their advisors about specific requirements or recommendations related to their majors.
<table>
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<th>Course Title</th>
<th>Restrictions</th>
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<td>Specific topics approved for designated cluster. Consult semester class schedule.</td>
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<tr>
<td>GEO 103</td>
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<td>not for BIO, CHM, GEO, PHY, or those who have taken GEO 109 or GEO 115</td>
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<tr>
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<td>GEO 115</td>
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<td>GEOLOGICAL HISTORY OF THE EARTH</td>
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<td>GEO 204</td>
<td>GEOLOGY FOR TEACHERS</td>
<td>for ECE, EMS, EMM only</td>
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<td>GEO 208</td>
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<td>GEO 218</td>
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<td>SCI 190</td>
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<td>SCI 230</td>
<td>ORGANISMS, EVOLUTION &amp; ENVIRONMENT</td>
<td>INSS</td>
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<tr>
<td>SCI 240</td>
<td>ORGANISMS, EVOLUTION, AND HEALTH</td>
<td>INSS</td>
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</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:

AMS 300 AMERICAN CULTURES
ANT 150 CULTURAL ANTHROPOLOGY
ANT 300 EVOLUTION OF PEOPLE AND CULTURE
ANT 360 CULTURES OF SOUTH ASIA
ASI 322 CITIES AND SUBURBS: THE INFLUENCE OF PLACE
ASI 325 CITIES AND INSTITUTIONS
ASI 345 SPECIAL TOPICS IN SOCIAL SCIENCE
   Restrictions: Specific topics approved for designated cluster.
   Consult semester class schedule.
ASI 358 CHRISTIANITY, CITIZENSHIP, AND SOCIETY
CMS 316 INTERCULTURAL COMMUNICATIONS
CMS 414 GLOBAL COMMUNICATION
CMS 415 WOMEN AND COMMUNICATION
ECO 203 PRINCIPLES OF MICROECONOMICS
ECO 204 PRINCIPLES OF MACROECONOMICS
ECO 300 PRINCIPLES OF ECONOMICS
ECO 310 ECONOMICS OF THE ENVIRONMENT
ECO 460 ECONOMIC DEVELOPMENT AND GROWTH
ECO 461 INTERNATIONAL ECONOMICS
EDT 303 SCHOOL, SELF, AND SOCIETY
HSS 325 WOMEN IN SPORT
POL 101 GLOBAL POLITICS
POL 306 PUBLIC POLICY ANALYSIS
POL 307 THE POLITICS OF BUREAUCRACY AND REGULATION
POL 321 RUSSIA AND THE NEW STATES
POL 331 NATIONALISM AND ETHNOPOLITICS
POL 371 ENVIRONMENTAL POLICY
POL 450 CIVIL LIBERTIES
PSY 101 INTRODUCTORY PSYCHOLOGY
PSY 334 INDUSTRIAL PSYCHOLOGY
PSY 341 SOCIAL PSYCHOLOGY
PSY 375 PSYCHOLOGY OF THE ARTS
PSY 443 PSYCHOLOGY OF WOMEN
PSY 444 ENVIRONMENTAL PSYCHOLOGY
PSY 445 TECHNOLOGY, ENVIRONMENT, AND BEHAVIOR
SOC 204 MODERN SOCIAL PROBLEMS
SOC 321 THE SOCIOLOGY OF WORK AND OCCUPATIONS
SOC 322 SEX ROLES AND SOCIETY
SOC 326 LAW AND SOCIETY
SOC 328 RACIAL AND ETHNIC MINORITIES
SOC 331 MARRIAGE AND THE FAMILY
SOC 332 SOCIOLOGY OF WOMEN
SOC 339 SOCIAL INEQUALITY
SOC 341 SELF AND SOCIETY
SOC 343 MASS COMMUNICATION IN MODERN SOCIETY
SOC 352 COMMUNITY
SOC 398 SOCIAL SCIENCE SCHOLARS’ SEMINAR
   Restrictions: Berry Scholars only
SWK 331 DEATH, DYING, AND SUICIDE
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, auditions, 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.
Grades and Scholarship

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

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

- Option 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, 1.667 quality points are allowed.
- D - Poor but passing; for each semester hour, 1.0 quality point is allowed.
- F - Failed. This mark indicates poor scholastic work, or failure to report withdrawal from a course. In such cases, required courses must be repeated or retaken, preferably at the next opportunity.

- **S** - Satisfactory. This mark indicates credit given for a course taken under grading Option 2, C- or higher. The S credit shall be counted as hours only and shall not be considered in determining a student's cumulative point average.

- **NC** - No Credit. This mark indicates no credit given for a course taken under grading Option 2, below C-. In such cases, required courses must be repeated or retaken, preferably at the next opportunity.

- **I** - Incomplete. This grade indicates that the student has obtained the instructor's recommendation, subject to the chairperson's approval, to complete some portion of the work of the term that for reasons beyond the student's control was not completed before the end of the term, provided that the rest of the work has been of satisfactory grade. An I must be removed within thirty days from the date listed on the grade report, or it will be changed to an F or NC (option 2) on the
student's permanent record. The time limit may be extended under exceptional circumstances, with the approval of the dean, if application for the extension is made within the thirty-day period noted.

W- Withdrawn. During the first three weeks of a full term (or the first eight class days of a split term) a student may withdraw from a class without record by obtaining a drop (withdrawal) form from the Registration Office, having it signed by the academic advisor, and processing it. Beginning with the fourth week of the term and continuing through the fourth week after mid-term (or the ninth class day of a split term and continuing through the fourth week of the split term), a student may withdraw with a W by the same process, except that the drop form must have the approval signature of the instructor as well as that of the advisor. For the remainder of the term, until the last day of classes, a student may withdraw with a W only by making a formal request to the dean, who consults with the student's instructor before granting such a request. During this period, 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 which has not terminated at the end of a term or summer session. A grade with corresponding credit and quality points (see grading Options 1 and 2) will be assigned when the course has been completed. 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 henceforth. There will be no retroactive adjustment to GPAs. The transcript will reflect this event with a notation of "same as" in the line containing the original grade. When a course in which a D was received has been retaken, and an F is earned, the initial D will be used in the student's cumulative GPA calculation, and the line containing the F will receive the notation of "same as". A student may have no more than 15 semester hours of "retaken" grades.

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

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

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

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

The University reserves the right to change the grading system.

Grade-Point Averages

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

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

The CUMULATIVE ACADEMIC UNIT GRADE-POINT AVERAGE includes only those courses completed at the University of Dayton and required for the specific degree obtained and/or approved for inclusion by the student's school or college.
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 its undergraduate schools, including the College of Arts and Sciences, the School of Business Administration, the School of Education and Allied Professions, and the School of Engineering. Students are requested to sign a pledge certifying that they understand the provisions of the Academic Honor Code and will abide by it upon matriculation to the University.

II. The Honor Pledge

Potential undergraduate students of the University of Dayton shall be made aware of the University's Academic Honor Code after the application period but before matriculation. Upon matriculation, the student shall be requested to sign the pledge as follows:

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 by the guidelines given 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.

Signed:

Dated:

Faculty shall make known the expectations for completing assignments and examinations at the beginning of each course, and list the expectations within the course syllabus. Faculty are encouraged to discuss these expectations with students in a manner appropriate for each course.
III. Standards of Conduct

Without regard to 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 and assignments consist 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; 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 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 professor concerning what constitutes permissible collaboration and what materials are allowed to be consulted.

B. Committing Plagiarism and Using False Citations
Plagiarism consists of quoting directly from any source of material without appropriately citing the source and identifying the quoted material; knowingly citing an incorrect 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. Faculty 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 work (in identical or similar form) for multiple purposes without the prior and explicit approval of all faculty members to whom the work will be submitted. This includes work first produced in connection with classes at either the University of Dayton or other institutions attended by the student.

D. Submitting False Data or Deceptive Information
The submission of false data is academic fraud. False data are data that have 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 turning in assignments at the scheduled times. Extenuating 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, registration forms, and medical certification of absence) concerning oneself or others is 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 and articles or 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 and 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 behavior 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 undergraduate students are subject to the Standards of Conduct and procedures of the Academic Honor Code, regardless of whether or not the Honor Pledge is signed. These procedures also apply to undergraduate students enrolled in graduate courses.

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

C. All honor code violations require that a dean be notified of the violation by either the faculty member or the student. If a student accepts a faculty member's accusation and/or penalty, the case will be considered resolved and no further action shall be required. If a student does not admit the violation or accept the proposed penalty, the student may contact the chair and initiate an appeal process as outlined in Section V.

D. If a possible violation is reported after the grade for a course has been submitted, a 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.

E. If a student with a possible violation withdraws, transfers, or is, for any reason, not currently enrolled at the University of Dayton, 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.

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.

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

V. Appeal Procedure

A student who feels an accusation of academic honor code violation is unfair may appeal in the sequential manner listed below:

A. If no resolution occurs in the private conversation with the instructor, the student may appeal to the chairperson of the department in which the course was taught. This appeal must be made in writing within ten days after meeting with the instructor and must state the situation as perceived by the student. The chairperson may use reasonable means including meeting with the instructor and student to reach a determination on the accusation.
B. If no resolution occurs with the department chairperson, the student has ten days to file a written appeal. In departments where a grade appeal committee already exists, this will be the review committee. This committee shall consist of faculty determined by the department chair of the department in which the violation occurred. The review committee will first select a chairperson, and then meet with the student and faculty member 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 and to question any witnesses against the student and to present evidence and witnesses on the student's behalf. Both the student and the faculty member must cooperate with the review committee. The review committee will make known its recommendations and the reasons for its recommendations in writing to the department chairperson(s), the student, the faculty member, and the dean(s). If the accusation is judged a violation and the penalty appropriate, a record will be sent to the student's chairperson and dean.

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 college or school in which the course was offered. The dean must make known his or her decision, and reason(s), in writing to the student, the faculty member, chairperson, and review committee.

D. A final appeal may be made to the Provost. The Provost must make known his or her decision, and reason(s), in writing to the student, the faculty member, chairperson, and review committee. The final authority rests with the Provost.
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 level acquired by textbook reading. Because textbook material is generally beneath the level of the current state of knowledge, instructors acquaint the student with new ideas and integrate this material into the course topics.

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

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

In addition to the first-year student policy, faculty may institute an attendance requirement. This may be done for any course (including seminars, laboratories, performance courses, clinical field-based courses, and the like) provided that the policy is approved by a faculty committee of the department and/or the department chair. If attendance is used as a grading component, the instructor is obligated to clarify his or her classroom policy regarding absences in writing in the syllabus provided during the first full week of the semester. Let it be noted that to insure accuracy of records, every student must be present at class during the first week of each term.
Internal Transfer Policy

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

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

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

- **School of Business Administration**
  - Cumulative GPA of 2.5, completion of an appropriate UD math course, and completion of the SBA transfer process. Please visit Transfer Students in Section VII for additional information.

- **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. Please visit Degree Requirements in Section VIII for additional information.

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

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

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

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.registrar.udayton.edu.

Explore General Information:
I. The University of Dayton
II. Student Life and Services
III. Admission
IV. Financial Information
V. Academic Regulations
   • General Requirements
   • Competency Program
   • First-Year Experience Program
   • General Education Requirements
   • Courses Approved for General Education
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VI. College of Arts and Sciences
VII. School of Business Administration
VIII. School of Education and Allied Professions
IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
XI. Directories
Honors

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

2. If a student qualifies for honors or moves into a different category of honors on the basis of his or her academic degree program grade-point average, the diploma issued will note the appropriate honor category and notation will be made on the transcript and permanent record. Due to time constraints no adjustments/corrections can be made to the actual printed graduation program.

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

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

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

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

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

5. Any exceptions to this procedure are the decision of the dean of the student's academic unit.
Awards

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

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

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

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

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

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

Arts and Sciences - The 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 for Achievement in Academic and Athletic Effort in Women's Basketball and Volleyball.

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

Biology - The John J. Comer Biomedical Undergraduate Research Award to the Undergraduate Student who best Demonstrated Research Excellence in Biomedical 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 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 a Deserving Student or Student Group that has most Effectively used Nonviolent Direct Action to Work for Change.

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

Campus Ministry - The Brother 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 - The American Chemical Society Award: Patterson College Chemistry Award.

Chemistry - The American Institute of Chemists' Award.

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

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

Chemistry - The Arlo D. Harris Assistance Fund to a Deserving 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 - The Polymer Education Committee Award for Outstanding Performance in Organic Chemistry.

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


Civil and Environmental Engineering and Engineering Mechanics - The Harry F. Finke, 1902, Award of Excellence to the Outstanding Senior in Civil Engineering-sponsored by the University of Dayton Alumni Association since 1962.

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

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

Communication-Debating - The Mary Elizabeth Jones Memorial Award of Excellence to an Outstanding 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-donated by the University of Dayton.

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

Communication-Speech Arts - The Reverend Vincent R. Valsey, S.M., Award of Excellence to the Outstanding Senior in Speech Arts-donated by Reverend Vincent R. Valsey, S.M.

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

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

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

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

Computer Science - The GKM Systems 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.

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


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


Electronic Engineering Technology - The Richard R. Hazen Award of Excellence for the Outstanding Graduate of the Electronic Engineering Technology Program-donated by 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 - The 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 - The Environmental Biology Award of Excellence to the Outstanding Environmental Biology Major who Excels in all Areas of Academic
Scholarship and Overall Service.

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

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

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

Finance - The Flyer Investment Excellence in Leadership Award to the Outstanding Student on the Vertically Integrated Investment Program (VI²P) 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-donated by Douglas R. Scott.

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

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

Health and Sport Science - The Thomas J. Frericks Award of Excellence to the Outstanding Senior in Sport Management-donated by the Faculty of the School of Education.

Health and Sport Science - The James M. Landis Memorial Award of Excellence for the Outstanding Health and Sport Science Senior in Science Core Courses.

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

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

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

Health and Sport Science - The Elizabeth L. Schroeder Award of Excellence to the Outstanding Senior in the Food and Nutrition Program for Academic, Departmental, and Professional Performance.

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 - The Human Rights Committee Award to an Outstanding Senior.
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 to Global and Local Issues.

International Studies - The Outstanding Senior Award for International Studies.

International Studies - The International Studies Peer Mentorship Award.

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

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

Languages-French - The 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 Outstanding Senior in German.

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 - The 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 - The 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 Literary Achievement.

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

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

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

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

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

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

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

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

Mathematics - The Faculty Award of Excellence in Mathematics.

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

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

Mechanical and Aerospace Engineering - The Class of 1902 Award of Excellence for Outstanding Mechanical Engineering Achievement-donated by Michael J. Gibbons, 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 Bernard F. Hollenkamp, '39, Memorial Award of Excellence to the Outstanding Senior in Mechanical Engineering-donated by Louise A. and Mrs. Lucille Hollenkamp.

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

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

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

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

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

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

Military Science - The Lieutenant Robert M. Wallace, '65, Memorial Award of Excellence in ROTC-donated by his family and friends.

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

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

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

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

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

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

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

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

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

Music - The University Band Spirit Award.

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

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

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

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

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

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

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

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

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

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

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

Premedicine - The 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 - The 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.


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

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

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

Teacher Education - The Raymond and Beulah Horn Award of Excellence to the Outstanding Student in the area of Intervention Specialist Education-donated by Dean Emeritus Ellis A. Joseph.

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

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

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

Teacher Education - The Dr. Mary R. Sudzina Award for Demonstrated Excellence in Case Study Analysis in Adolescence to Young Adult Education.

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

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

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

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

Women's Studies - The Joyce Durham Award for the Best Student Essay on the Subject of Women or Gender.
Women's Studies - The Susan R. Hermes Award for Excellence in Women's Studies-donated by Drs. Jane S. Zembaty and Patricia A. Johnson.
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 #7 Form must be completed either online (http://www.registrar.udayton.edu) or via hard copy and turned into the Registrar's Office, located on the second floor of Albert Emanuel Hall. If a student is receiving two degrees, two separate #7 forms, one for each degree, must be completed. For further information visit the Registrar's website at: http://www.registrar.udayton.edu.

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. For more information on "Other Charges," visit Section IV, Financial Information. A complimentary transcript certificate will be given to each graduate when the official diploma is issued. For more information please visit: /www.registrar.udayton.edu.
College of Arts and Sciences

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 the following areas:

- American Studies
- Art History
- Chemistry
- Communication
- Criminal Justice Studies
- Economics
- English
- French
- German
- History
- Human Rights
- International Studies
- Languages
- Mathematics
- Music
- Philosophy*

The Bachelor of Science is offered in the following areas:

- Applied Mathematical Economics
- Biochemistry
- Biology
- Chemistry
- Computer Information Systems
- Computer Science
- Environmental Biology
- Environmental Geology
- Geology
- Mathematics
- Physics
- Physics-Comp. Sci.
- Pre dentistry
- Psychology
- Sociology*
- Spanish
- Theatre
- Visual Arts
- Women's and Gender Studies

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

Other programs leading to the bachelor's degree:

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

Established Interdisciplinary Majors

American Studies, Criminal Justice Studies, International Studies, Premedicine, Predentistry, and Women's and Gender Studies 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:

1. 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.

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

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

4. 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.

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

Students who meet language proficiency without taking College courses in language must complete at least 3 additional semester hours of study in the arts and/or humanities beyond the Humanities Base. Students who demonstrate
language proficiency by taking 3 to 9 semester hours of language study complete the requirement.

Students who choose not to demonstrate language proficiency select 8-9 semester hours in the arts and/or humanities beyond basic skills including courses in any of the preceding categories or any other arts or humanities area, in consultation with their academic advisor. Individual departments may specify how these hours are to be used for those students who do not choose the language proficiency option.

Social Sciences: Students complete 12 semester hours including two courses at the introductory level from at least two different traditional disciplines (ANT 150, ECO 203, POL 101 or 201, PSY 101, and SOC 101 or 204), one course at the 300-400 level in one of the disciplines in which an introductory course was taken, and one additional course from any of the traditional disciplines or from the list of courses approved for General Education social science. (Students in the E-11 program may take two approved courses in the School of Education). ¹

Mathematics: Students complete 3 semester hours selected from courses in the Department of Mathematics (MTH 102, 204, 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 English and Foreign Language Literature are as follows:

CLA 330
FRN 350, 352, 360, 361, 362, 381, 450, 452
GER 350, 361, 362, 450
ITA 361, 362
SPN 350, 361, 362, 363, 364, 450, 451, 471, 472

³ Courses for Creative and Performing Arts are as follows:

ASI 214, 341
CMM 311, 331, 332, 333, 341, 342, 343, 344, 351, 442, 444, 449
ENG 282, 284, 286, 308, 310, 312, 331, 382
THR 100, 105, 201, 202, 203, 251, 261, 271, 300, 301, 303, 305, 307, 310, 312, 320, 323, 325, 326, 330, 344, 351, 361, 371
VAF 104, 112, 117, 204, 226, 228, 232, 240, 253, 304, 325, 326, 328, 332, 340, 353
VAM 101, 201, 202, 203, 350, 360, 370, 382, 383
VAP 101, 201
VAR 210, 220
Summary of Requirements for the B.A.

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<th>Core Area</th>
<th>Sem. Hrs.</th>
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<td>Major</td>
<td>30-45</td>
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<td>Liberal Studies Curriculum</td>
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<tr>
<td>Philosophy and Religious Studies</td>
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<td>English or Foreign Language</td>
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<td>Literature</td>
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<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
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<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
<td>3-9</td>
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<tr>
<td>Social Sciences</td>
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<tr>
<td>Mathematics</td>
<td>3</td>
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<tr>
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<td>General Competencies</td>
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<td>Introduction to the University</td>
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VII. School of Business Administration
VIII. School of Education and Allied Professions
IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
XI. Directories
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.)

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.

Distribution Table for Breadth Requirements

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

Sem. Hrs.

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

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

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.

**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.)

**Philosophy and Religious Studies**

**Communication Competencies** (ENG 101-102 or 114 or 198; CMM 110, 111 or 112, 113): 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.
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, VAA 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.
Foreign Language Entrance Requirement

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

Proficiency in a Foreign Language

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

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

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

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

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

**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 (141)**: 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 foreign language proficiency by satisfying the University General Competencies requirements in writing and oral communication. These Students may satisfy the Foreign Language option in the Humanities and Fine Arts components of the Liberal Studies Curriculum for the B. A. degree by demonstrating proficiency in another foreign language or by taking courses in the humanities and/or arts areas.
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 College provides a variety of noncredit courses, many in the form of workshops, seminars, study tours, conferences, and teleconferences. These are planned to meet the educational and training needs of organizations and of the community and are held both on and off campus. This office also administers Elderhostel, 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.
School of Business Administration

Matthew Shank, Dean
Elizabeth Gustafson, Associate Dean
Paul Sweeney, Associate Dean
Janice Glynn, Director, MBA Program
John Shishoff, Director, Undergraduate Programs

Mission

We are a learning community committed in the Marianist tradition to educating the whole person and to connecting learning and scholarship with leadership and service within an innovative business curriculum designed to prepare students for successful careers in the contemporary business environment.
The School of Business Administration seeks to develop people and knowledge which make a difference in business and society. For this reason, the undergraduate curriculum emphasizes three distinct areas of knowledge: a foundation in the liberal arts (general education requirements), a firm grounding in the common body of business knowledge (core business requirements) and specialization in a business major. The curriculum is built on four central themes: integrated learning, connecting theory and practice, leadership, and ethics and integrity. Supplemented with opportunities for enrichment, the curriculum stimulates critical thinking, enhances communication skills, integrates and synthesizes knowledge, and fosters ethical decision-making and moral leadership. Built upon the enduring and fundamental bases of knowledge, it is designed to prepare students for successful careers in the complex global economy of the 21st century.

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

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

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

First Year Courses
(Core Business Requirements)

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

(General Education Requirements)

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

Second Year Courses
(Core Business Requirements)

ACC 207 Introduction to Financial Accounting
ACC 208 Introduction to Managerial Accounting
DSC 210 Statistics for Business I
DSC 211 Statistics for Business II
ECO 203 Principles of Microeconomics
ECO 204 Principles of Macroeconomics
MGT 201 Legal Environment of Business

(General Education Requirements)

CMM 113 Interviewing
HST elective
Physical or Life Science elective (BIO, CHM, GEO, PHY)
Arts Study elective

Third and Fourth Year Courses
(Core Business Requirements)

FIN 301 Business Finance
MGT 301 Organizational Behavior
MIS 301 Info Systems in Organizations
MKT 301 Principles of Marketing
OPS 301 Survey of Operations Mgt
MGT 490 Managing the Enterprise
ECO elective

(General Education Requirements)

PHL 313 or REL 368 Business Ethics

Business Writing Requirement: students select from ENG 370, ENG 371, or ENG 372.

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

(Generic Electives)
Most majors have 12 hours of General Elective courses associated with the major. Exceptions are Accounting which has 6 hours, Management Information Systems, which has 5 hours, and Operations Management, which has 9 hours. Many students use the general elective hours to support an additional major or minor.

1 A proficiency test for BAJ 103L is available for those with adequate background.
2 MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirements.
Academic Programs

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

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

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

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

* Students majoring in marketing have the option of pursuing this major with a sales management emphasis.

Minors are also available in:

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

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

Double majors and minors in business administration programs, and also in non-business programs, are available. A minimum of seven hours of coursework can double count between double majors and a major and a minor. Interested students should consult with the Advising Center and the appropriate departments 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. Additionally, students must apply and qualify for admission into graduate school during their fourth year in order to participate.
Requirements for the Baccalaureate Degree

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

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

2. The candidate must earn a cumulative grade point average of at least 2.0 in the total semester hours required for the degree and at least a 2.0 for the total semester hours required for each major. The 2.00 requirement in a major is calculated using all required courses attempted in the student's major, except for the 301 CORE business requirement courses.

3. Each candidate must complete at least 54 upper-level (300 or 400 level) semester hours.

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

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

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

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

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

9. The candidate must complete UD's general and graduation competency requirements.

10. The candidate must fulfill UD's thematic cluster requirements.
Admission to the School of Business Administration

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

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

  English 4 units

  Mathematics (Algebra I & II, Geometry) 3 units

  Natural Science with a Laboratory 1 unit

  Social Science 2 units

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

(For more information, visit International Students in Section III, Admission.)
Student Laptop Policy

All full-time students are required to purchase a laptop computer. All part-time students are encouraged to buy a laptop.
Grading Option

All students in the School of Business Administration must register under Grade Option 1 for all courses required to fulfill degree requirements. Pass/Fail (Grading Option 2) will not count towards degree requirements.

Cooperative education and internship experience courses are an exception and may be taken under Grade Option 2. However, these courses may be used for general elective credit only.
Transfer Students and Transfer Courses

Candidates for admission from other accredited colleges or universities must be in good academic standing in the colleges or universities from which they are transferring and submit a complete application in accordance with UD admissions policies.

Students seeking to transfer into the School of Business Administration (SBA) from other UD divisions must first attend an academic transfer counseling meeting (scheduled by calling 229-2065); and then submit a completed SBA transfer application (provided during the academic counseling meeting), with a letter indicating their reasons for requesting the transfer. Applications will be evaluated in November, February, April, and August of each year. When applications are completed, students will be invited to move to the second phase of the transfer process. These students must attend a second academic transfer meeting. The second phase conditions which must be met before actually being transferred to the SBA include the completion in good form of an SBA academic plan, and a resume, which must be posted with Career Services. UD transfer students should complete this process prior to taking any upper level (300 and 400 numbered) courses required for the SBA degree.

Initial approvals (first phase) for all transfers will be based on consideration of previously earned UD GPA, SAT and/or ACT scores, high school record, and other information in the application. Applicants should also exhibit professional behavior during the transfer process. Approvals may be limited by the enrollment space available. Normally, however, no student will be approved for this phase without a cumulative GPA of 2.5 or higher, and completion of an appropriate math course, such as MTH 116, 128, or a higher level UD math course.

Transfer Courses

Individual courses can be transferred only if the student earned a grade of C- or better; courses in which a D or F grade was received will not be transferred. Most 200 level and all upper division business courses can only be transferred from business schools accredited by AACSB International (The Association to Advance Collegiate Schools of Business). At least 75 percent of a student's business courses must be completed at the University of Dayton. Students planning to attend two year colleges before transferring to the School of Business Administration are encouraged to follow arts and sciences or pre-business programs rather than technical programs. (Also visit Section III, Admission.)
Returning Students

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

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

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

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

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

Positions offered to students may be either compensatory or noncompensatory. The intent of the internship is to be beneficial to both the students and the participating organizations. Assistance in finding internships is available from the SBA, Department Chairs and faculty, and Career Services. Students are all encouraged to find positions themselves, and these are acceptable if the employers agree to the conditions for participating organizations.

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

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

The eleven-week European program is divided into two sessions, with a week break between sessions. Locations may change in any given year. Recently, students were able to spend the first session in either Augsburg, Germany, Madrid and Barcelona, Spain, or Rome, Italy. In the second session, students chose between Augsburg, Germany and Rome, Italy or London, England and Dublin, Ireland.

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

Thomas J. Lasley, Dean  
C. Daniel Raisch, Associate Dean  
H. Roberta Weaver, Associate Dean

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

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

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

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

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

Program BSE.EYA: Adolescence to Young Adult Education
Program BSE.EHA: Dietetics
Program BSE.ECE: Early Childhood Education
Program BSE.ECL: Early Childhood Leadership and Advocacy
Program BSE.EEP: Exercise Physiology
Program BSE.EES: Exercise Science and Fitness Management
Program BSE.EMM: Intervention Specialist (Special Education)
Program BSE.EMS: Middle Childhood Education
    Multi-Age PK-12
    BSE.ELA: Foreign Language Education
    BSE.EAR: Visual Arts Education
Program BSE.EHN: Nutrition and Fitness
Program BSE.EDP: Physical Education Pre-K-12
Program BSE.EPT: Pre-Physical Therapy
Program BSE.ERL: Secondary Catholic Religious Education
Program BSE.ESM: Sport Management
    Teacher Licensure for students in the College of Arts and Sciences
Teacher Licensure

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

The SOEAP prepares students for licenses in early childhood, middle childhood, adolescence to young adult, intervention specialist, art, foreign language, physical education, and music education.
Degree Requirements

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

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

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

The requirements for graduation and teacher licensure are included below.

1. The student would demonstrate abilities in content and pedagogical knowledge, dispositions and skills that would be indicative of professional success. All students enrolled in programs leading to State of Ohio licensure must verify that they are of "good moral character," fingerprinted, and pass a background check. Pursuant to SOEAP policy, these students must complete the appropriate forms provided by the Office of the Dean. (Consult the SOEAP dean's office for further information.)
2. The student would successfully complete a variety of planned and supervised clinical experiences essential to the professional development of beginning teachers.
3. The student would successfully complete a minimum of 124 semester hours in approved courses; some programs may require more than 124 semester hours.
4. The student would demonstrate a cumulative grade point average of at least 2.5, overall, in the professional education courses and in each teaching field in which licensure is sought. The professional education courses, the content courses in the teaching fields, and the General Education courses must be taken under grading Option 1.
5. The student would successfully complete the following general professional education sequence of courses:
   A. Personal and Professional Development of the Teacher
   B. Child and/or Adolescent Development
   C. Teaching and Learning Theories
   D. Inclusive Education
   E. Special Methods

The requirements for starting and/or continuing a program process for students in Baccalaureate Programs
- Teacher Licensure
- Degree Requirements
- Undergraduate Academic Policies
- University Policies
- Advising and Scheduling
- Preparing to Teach Religion to Grades 7-12
- Clinical Experience
- Licensure and Securing a Teaching Position
- Licensure for Students in Arts and Sciences
- Graduate Programs

IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
XI. Directories
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.

1Each program has particular methods courses along with other specialized education courses; see specific programs.
Undergraduate Academic Policies

1. It is the policy of the Department of Teacher Education that the candidates for undergraduate licensure are placed in schools in the Miami Valley area for student teaching experiences. Student teaching is the capstone experience for the preparation programs. The University needs to continue supervision and contact, to maintain the consistency and the quality of the licensure programs.

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

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

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

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

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

Students are reminded to refer to pertinent sections of this Bulletin and the Student Handbook for all policies to which they are subject.
Advising and Scheduling

Upon the completion of the first year, all first-year education students are assigned faculty advisors from the program in which they have been accepted. Scheduling for courses is completed through the department advisors, Dean's Office and EDT 109 instructors.
Preparing to Teach Religion to Grades 7-12

As a Marianist and Catholic university, the University of Dayton seeks to collaborate with the local church in providing creative ways to serve those wishing to pursue a career in church ministry. The University of Dayton's School of Education and Allied Professions, the Religious Studies Department, the Center for Catholic Education, the Institute for Pastoral Initiatives, and the Archdiocese of Cincinnati have worked together to provide options for those wishing to prepare to be high school religion teachers. The options prepare students with actual classroom experience, theories and methods of education, and religious studies content courses.

The Archdiocese of Cincinnati requires 30 semester hours of religious studies courses with at least one course in each of the following areas: Doctrine, Historical, Liturgical/Sacramental Theology, Morality, and Scripture.

Students majoring in Education may also choose to complete additional courses in Religious Studies and graduate with two majors. The UD major in Religious Studies requires 36 semester hours in one of five tracks. The distribution of courses in the Catholic Schools track parallels most diocesan requirements. See Religious Studies (REL) major under Academic Information.

The following options are designed to meet the needs of students of different circumstances while taking into consideration the Archdiocese of Cincinnati's requirements for high school religion teachers and providing course work recommended and/or required by the Department of Teacher Education and the Religious Studies Department.

Option #1: Major: Adolescence to Young Adult Education

Student has two Teaching fields: one recognized by the State of Ohio and Religion.

All requirements set forth by the SOEAP for the teaching field recognized by the State of Ohio must be fulfilled. Additionally, 30 semester hours in religious studies must be taken. Upon graduation, the student will receive a teaching license from the State of Ohio for the state recognized field and will have met the requirements to receive a certificate to teach religion from the Archdiocese of Cincinnati. See the Secondary Catholic Religion Education Checksheet, Concentrations for both Religion and AYA, and Example Four Year Plan at http://soeap.udayton.edu/academic/edt/checksht/eya.htm for specific coursework.

Option #2: Major: Catholic Religious Studies Education

Student has one Teaching Field: Religion.

A minimum of 30 semester hours in religious studies must be completed. At least one course in each of the following areas must be taken: Doctrine, Historical, Liturgical/Sacramental Theology, Morality, and Scripture. The student may add Religious Studies as a second major by completing a total of 36 semester hours in Religious Studies. Upon graduation, the student will have met the requirements to receive a certificate to teach religion from the Archdiocese of Cincinnati. See the Secondary Catholic Religion Education Checksheet, Concentrations for Religion, and Example Four Year Plan at http://soeap.udayton.edu/academic/edt/checksht/eya.htm for specific coursework.
Option #3:  
Major: Religious Studies

All requirements set forth by the College of Arts and Sciences to obtain a degree in Religious Studies must be fulfilled. Upon graduation, the student will receive a degree in Religious Studies and will have met the requirements to receive a certificate to teach religion from the Archdiocese of Cincinnati.

Education Courses:
- EDT 109 - Personal Aspects of Teaching*
- EDT 110 - The Profession of Teaching*
- EDT 222 - Development in MC and AYA
- EDT 305 - Philosophy and History of American Education
- EDT 338 - Teaching and Learning
- EDT 340 - Educ Diverse Student Populations in Inclusive Set
- EDT 459 - Critical Reading and Writing in the Content Area
- EDT 475 - Student Teaching-Adolescence to Young Adult**

Religious Studies courses offered at UD that meet the requirements of the Archdiocese of Cincinnati:

For the Doctrine requirement:
- REL 429 - Modern Catholicism
- REL 437 - Significance of Jesus
- REL 440 - The Church
- REL 444 - God in Christian Tradition
- REL 447 - Selected Catholic Doctrines

For the Historical requirement:
- REL 323 - History of Christianity I
- REL 324 - History of Christianity II

For the Liturgical/Sacramental requirement:
- REL 443 - The Sacraments
- REL 446 - Christian Liturgy

For the Morality requirement:
- REL 360 - Christian Ethics
- REL 363 - Faith and Justice

For the Scripture requirement:
One course in Old Testament:
- REL 310 - The Pentateuch
- REL 311 - The Prophets
- REL 312 - The Psalms and the Wisdom Literature

One course in New Testament:
- REL 315 - The Gospels
- REL 316 - New Testament Theologies
- REL 318 - Studies in Paul
- REL 319 - The Book of Revelation

Required Methods course:
- REL 487 - Religious Education - Theory and Practice

Recommended courses:
- REL 327 - U.S. Religious Experience
- REL 328 - U.S. Catholic Experience
- REL 329 - African-American Religion

* May be waived by the Chair of the Department of Teacher Education for students selecting Option #3.
** If the student does not complete before graduation the Archdiocese may consider their first semester of teaching as fulfillment of their student teaching requirement.

Additional program to provide related experience:

Forum for Young Catechetical Leaders
The mission for "the Forum" is to inspire, animate, and form a new generation of dedicated catechist and catechetical leaders who are committed to teaching the
Good News in schools, parishes, and churches. For more information, visit http://campus.udayton.edu/~ipi/fycl.
Clinical Experience

The Clinical Experience, which is full-time supervised teaching with qualified mentor teachers in P-12 schools, involves full-day sessions for approximately one semester. During the semester of student teaching, the student is advised not to register for any other courses, but as an exception will be allowed to take at most three semester hours of additional coursework. These additional semester hours must be scheduled outside the normal school times in order to keep the student-teaching experience intact for the full school day. It is advised that the student make financial arrangements so that they are prepared to discontinue part-time employment during this semester. The faculty members in the Department of Teacher Education screen each candidate who applies for student teaching on the basis of the following factors: (1) grade-point averages in professional education, concentration content course work, and overall coursework of at least a 2.5, (2) completion of "Good Moral Character" form, (3) passing a background check, (4) successful completion of the prerequisite courses and field experiences, and (5) successful completion of the required standardized testing.

Prerequisites for candidacy for the clinical experience are (1) official enrollment in a teacher education program at the university, (2) completion of the minimum residence requirement of thirty semester hours inclusive of student teaching, (3) formal application for student teaching submitted at the beginning of the term in advance of student teaching.

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

Students who qualify for teacher licensure through the SOEAP may attend the University of Dayton Career Services' Education Interview Day and are supported by faculty and the Educational Field Office. Placement requires cooperation from the candidate in uploading the necessary information and in obtaining letters of recommendation. Dates for interviews with prospective employers arranged by the University of Dayton Career Services are announced in advance.
Licensure for Students in Arts and Sciences

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

Students in the College of Arts and Sciences may enroll in the Department of Teacher Education's Adolescence to Young Adult Education Program without transferring to the School of Education and Allied Professions. For requirements in professional education courses and in teaching fields consult the 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. These include passing all three sections of Praxis I, maintaining an overall average of 2.5 in the content area and in professional education courses, completing field-based experiences in the schools, passing a background check, a semester of student teaching and taking the comprehensive Praxis II exams.

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

When the proper course requirements have been completed, the student may register for student teaching, upon approval of the application for student teaching. Applications must be submitted to the Educational Field Office at the beginning of the term prior to the term in which student teaching will take place.

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

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

Tony E. Saliba, Dean
Malcolm Daniels, Associate Dean
Riad Alakkad, Assistant Dean for Undergraduate Advising and Retention
John Weber, Assistant Dean for Recruitment and Continuous Improvement

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 course work and continues as they progress toward their objectives.

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

The engineering program in each of the fields of chemical, civil, computer, electrical, and mechanical engineering is designed to lead to a bachelor's degree in a four-year period. While students pursue curricula they themselves have chosen according to their fields of interest, they all take certain core courses in mathematics, chemistry, physics, English, and engineering fundamentals. All of the programs permit additional specialization (as an overload) in minors and concentrations in areas such as aerospace engineering, computer engineering, computer systems, electro-optics, engineering mechanics, industrial engineering, and structures in the School of Engineering and in other areas such as languages, music, and political science in other units of the University.

Although emphasis is on fundamental theories, continued attention is paid to the solution of practical problems which the student will encounter in the practice of engineering.

The programs in chemical engineering, civil engineering, computer engineering, electrical engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

The programs in industrial, global manufacturing systems, and mechanical engineering technology are accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The program in computer and electronic engineering technology is a new program and will be evaluated by the Technology Accreditation Commission of ABET at the earliest opportunity.

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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:

- Electronic and Computer Engineering Technology
- Global Manufacturing Systems Engineering Technology
- Industrial Engineering Technology
- Mechanical Engineering Technology
- Quality Assurance

Students in engineering technology majors may also participate in the integrated arts and technology (IA&T) program. This program provides a connection between students' aptitude for a technical discipline with their passion for the arts - an aspect currently not found at many other schools of engineering. The program provides a strong foundation in areas such as audio engineering, computer-based visual design, web page design and technical support for live performances. Upon completion of the IA&T program, students receive an integrated arts and technology certificate and a Bachelor of Science in engineering technology.

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 global manufacturing systems, industrial, and mechanical engineering technology are accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The program in electronic and computer engineering technology is new and will be reviewed for accreditation at the earliest possible opportunity.

**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 listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 137-138</td>
<td>Calculus I with Review</td>
<td>8</td>
</tr>
<tr>
<td>MCT 110L</td>
<td>Technical Drawing &amp; CAD</td>
<td>2</td>
</tr>
<tr>
<td>SET 153L</td>
<td>Technical Computation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHM 123-123L</td>
<td>General Chemistry with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101-102</td>
<td>College Composition I, II</td>
<td>6</td>
</tr>
<tr>
<td>or 114 or 198</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 103</td>
<td>Introduction to Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>HST 103</td>
<td>The West and the World</td>
<td>3</td>
</tr>
<tr>
<td>SET 100</td>
<td>First-Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SET 101</td>
<td>Enrichment Workshop</td>
<td>0</td>
</tr>
</tbody>
</table>

Total First-Year Requirements 31
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
- Design and Manufacturing Engineering
- Dynamic Analysis of Mechanical Systems
- Engineering Management
- Engineering Mechanics
- Environmental Engineering
- Materials Engineering
- Mechanics of Engineering 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 if the general requirements enumerated in Section V, Academic Regulations have been fulfilled as well as those listed below:

1. All prescribed courses outlined in the respective curricula must have been passed with grades of D or better and the student must obtain a minimum grade point average of 2.000 for the prescribed courses. Although courses may be scheduled in terms other than as listed, all prerequisites and corequisites must be met.
2. All students in the School of Engineering must register under Grade Option 1 for all courses in engineering, mathematics, and science except those offered only under Grade Option 2.
3. The cumulative grade-point average in all courses which have an engineering prefix must be at least 2.0 (C average).
4. The student must have 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  
Electronic and Computer Engineering Technology Major 130  
Global Manufacturing Systems Engineering Technology Major 131  
Industrial Engineering Technology Major 129  
Mechanical Engineering Technology Major 131
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.
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.
5-Year Combined Bachelor's-Master's Engineering Program

The School of Engineering offers a combined 5-year program leading to both a bachelor's degree in an engineering major (chemical, civil, computer, electrical, mechanical, or technology) 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.

Selection of the graduate (master's) program area is indicated below:

<table>
<thead>
<tr>
<th>Undergraduate Program</th>
<th>Graduate Program Selections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>Engineering Management</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>Management Science</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>Materials Engineering</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>Management Science</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Materials Engineering</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>Physics</td>
<td>Management Science</td>
</tr>
</tbody>
</table>

The department chairperson and the graduate program director serve as an advisory committee to the student in establishing the 5-year combined program requirements. The first-year, sophomore, and junior years follow the curriculum of the student's selected bachelor's program.
A student who elects the 5-year combined program must satisfy both undergraduate and graduate degree requirements as to required cumulative grade point average for graduation. The graduate of the combined program will receive a bachelor's degree in the undergraduate major (e.g., Bachelor of Mechanical Engineering) and a master's degree in the graduate area (e.g., Master of Science in Materials Engineering). A student in the 5-year combined program who chooses not to complete the program must complete all the undergraduate major program requirements to receive the bachelor's degree.

### 5-Year Bachelor's - Master's Program

<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></td>
</tr>
<tr>
<td>Undergraduate department major</td>
<td>11</td>
<td>11</td>
</tr>
<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:</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>Fifth Year</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>
ETHOS

Engineers in Technical, Humanitarian Opportunities of Service-Learning

The ETHOS Program is founded on the belief that engineers are more apt and capable of serving our world appropriately when they have experienced opportunities that increase their understanding of technology's global linkage with values, culture, society, politics, and economy. ETHOS seeks to provide these opportunities through international service internships as well as through collaborative research and hands-on classroom projects that support the development of appropriate technologies for the developing world.

Such experiences expose students to alternative nontraditional technologies that are based on fundamental science and engineering principles and at the same time provide tangible and immediate impacts improving the lives of those who use them. ETHOS maintains as its educational objective to challenge students to think creatively and independently, to work as a team and communicate effectively, and to address issues of appropriate technology, environmental ethics, social responsibility, and cultural sensitivity.
Optional Cooperative Education

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

Please select a subsection using the menu to the right.

Explore General Information:

I. The University of Dayton
II. Student Life and Services
III. Admission
IV. Financial Information
V. Academic Regulations
VI. College of Arts and Sciences
VII. School of Business Administration
VIII. School of Education and Allied Professions
IX. School of Engineering
X. Interdisciplinary, Experimental and Special Areas
   • Adult Degree Advancement Program (ADAP)
   • Affirmative Action Office
   • Air Force Reserve Officers Training Corps (AFROTC)
   • Center for International Programs
   • Cooperative Education (COP)
   • Core Program
   • Distance Learning Courses
   • Education Abroad
   • Fitz Center for Leadership in Community
   • General Studies (GEN)
   • Information Technology Facilities and Services
   • Institute for Pastoral Initiatives
   • Interdisciplinary Studies
   • John W. Berry, Sr., Scholars Program
   • Marian Library/International Marian Research Institute
   • Office of Educational Services
   • Prelaw
   • Research Institute (UDRI)
   • Reserve Officers Training Corps (ROTC)
   • University Honors Program
   • Women's Center

XI. Directories

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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 College 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

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.
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. 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 affiliate and exchange 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 provide a comprehensive list of programs to interested students. 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 over 20 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. 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.

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 choose to live in an upperclass international community, located in two neighboring apartment buildings on campus. Residents of the ILLC live together in four-person apartments and participate in activities that encourage intercultural communication and the building of relationships 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.
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 45469-1110; 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 45469-0223; phone (937) 229-2335; website http://engineering.udayton.edu/careers/coop.asp.
Core Program

The University of Dayton's Core Program offers an innovative, interdisciplinary curriculum program consisting of a sequence of courses that fulfill many of the University's General Education Requirements. These courses address a common theme, "Human Values in a Pluralistic Culture," and are carefully coordinated with one another so that students experience the integrated character of the liberal arts. Extra-curricular speakers, arts events, and other activities related to course content are an important part of the program.

Core accepts approximately 150 students each year, representing all of the University's four undergraduate schools — the College of Arts and Sciences, the School of Business Administration, the School of Education and Allied Professions, and the School of Engineering. All entering first-year students are invited to apply; students in some majors in the College of Arts and Sciences are enrolled automatically. Core is designed to deepen the learning experience of any interested University of Dayton student. While Core is not an accelerated or honors program, students can earn credit toward the Honors Program with Core courses.
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 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 programs director assists with the application process and prepares each student through a pre-departure orientation. The education abroad office also offers a re-entry program to students returning to the U.S.

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

Summer Education Abroad - Interdisciplinary

The Summer Study Abroad Program, offered through the Center for International Programs, 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 four-and-a-half 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 2010 options include programs for business, communication, and law, among others.

Language majors or minors can develop their spoken and written foreign language skills through the Department of Languages' intensive summer study programs. Students can improve their foreign language skills while integrating personal experiences and discoveries with material discussed in class lectures. UD 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

UD has developed partnerships and participates in exchange agreements with several overseas institutions. In addition to UD tuition, 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 http://international.udayton.edu/resources/partners.htm.

The following exchange programs are administered by the University of Dayton through our partner institutions:

China: Students may study a variety of disciplines through our partner institutions in Nanjing and Shanghai, China. Nanjing University is one of the oldest higher learning institutions in the world and recognized as one of the top 50 international universities. Academic exchanges are available during the fall and winter semester, and students may choose from a wide selection of courses taught in Chinese, with some offerings taught in English.
Students may study engineering alongside Chinese language and culture through Shanghai Normal University. A modern and bustling city at the heart of commercial, cultural and intellectual life in China, Shanghai offers students a look at life in modern China.

Finland: The largest and leading business school in Finland, Helsinki School of Economics offers students interested in business a unique exchange experience. Students may attend during the fall or spring semester, and classes are in English.

France: Depending on their degree of language ability and academic program of study, students may choose from four exchange programs with universities in France. Located in Angers, France, the École Supérieure des Sciences Commerciales d'Angers (ESSCA) offers a business-oriented curriculum for fall and spring semesters, as well as a summer session. Most courses are taught in English and focus on international business, particularly the business environment in the European Union. Internships are also available through Group ESSCA.

Also located in Angers, the Université Catholique de l'Ouest is a private, Catholic university offering an intensive French language program and a broad Humanities-based curriculum. Students may participate in summer, semester and year-long programs as well as internships in the heart of the Loire Valley of France.

Situated in Paris, the exchange program with the Institut Catholique de Paris allows students to study French language and culture classes as part of a special program designed for students from around the world who are studying French as a foreign language.

The École Nationale Supérieure d'Ingénieurs de Bourges, a top engineering school located in the center of France, is well-suited to those pursuing research projects in engineering. Courses are in English and French, and are offered during the fall and spring semesters.

Germany: An agreement with the Universität Augsburg allows students to spend a fall or spring semester in Augsburg, about one hour from Munich. Students select from a wide variety of offerings in a number of disciplines including business, social sciences and the humanities, and courses are offered in German. There is an option to study German language and culture exclusively at this university.

Ireland: Located outside of Dublin, National University of Ireland, Maynooth is a comprehensive university offering a wide range of courses. NUI Maynooth is associated with St. Patrick's Pontifical College which may be of particular interest for religious studies majors.

Korea: Located in Seoul, South Korea, Korea University, is one of the most prestigious universities in the world. With much of the coursework taught in English, Korea University is open to UD students from multiple disciplines. In addition to semester and year-long study opportunities, Korea University also offers a world-renown International Summer Campus program that draws top international students to Seoul to study. KU is AACSB accredited.

Mexico: Located in the state of Yucatan in the Gulf coast region of Mexico, the Universidad Marista de Mérida offers course work in the arts, business, engineering, and natural and social sciences. Classes are taught in Spanish.

Morocco: Students interested in spending a semester at the crossroads of Eastern, European and African cultures are welcome to attend Al Akhawayn University in Ifrane for one or two semesters. A private university with classes taught in English, Al Akhawayn offers course work in business, engineering, international studies, and Arabic, as well as traditional offerings in the social sciences and humanities.

Spain: Students interested in studying business in Spain may study at the Universidad de Deusto in San Sebastián. Exchanges are available during the fall and spring terms, and courses are in Spanish.

The Netherlands: Situated in Nijmegen, the oldest city in the Netherlands, Radboud University Nijmegen offers a comprehensive curriculum with over 100
areas of study. Many classes are taught in English.

Other Opportunities

UD students can study abroad in many countries through other U.S. colleges and universities, and study abroad organizations or overseas universities. Tuition for affiliate programs varies by program. In addition to tuition, students are responsible for room and board in the host country, international travel, and personal expenses. Aid for non-UD sponsored programs is limited to federal loans and grants. Through these programs, UD 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 spring break.

ETHOS offers various service opportunities in cities within Latin America and Africa. 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.

Release Agreement and Travel Registration

All students participating in a university-sponsored international program must complete the Study Abroad Release and Agreement 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.

Additionally, all UD students participating in a university-sponsored international program are required to complete the online Travel Registry (http://travel.udayton.edu). 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 University-sponsored programs are required to register with the U.S. State Department.

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 and 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 make every attempt to contact the U.S. Embassy or Consulate, as well as Catholic organizations in country to obtain additional information and advice on the situation. The IRT will review the waiver application along with the additional information collected by the CIP and make a recommendation. The CIP will make the final decision regarding travel waivers. There is no appeal process for waivers that are denied.
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 working at comprehensive community building and providing a context for connected learning and scholarship. The University of Dayton's vision is to become a national leader in the education of community builders - including students, faculty, staff, and alumni - through their participation in community building partnerships. Grounded in Catholic social teaching and Marianist ideals, the Fitz Center stimulates, coordinates, and facilitates learning and scholarship on leadership in community.

The Fitz Center builds on the University's and the Marianists' long experience of linking University resources to those of the Dayton community to solve regional problems, develop community leaders, and build neighborhoods. 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.

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

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

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

- Initiate and sustain partnerships.
- 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:

- Ferreé Professor of Social Justice
- Community-based service-learning
- Leadership in Building Communities seminar
- Semester of Service
- Rivers Institute and River Stewards
• Dayton Civic Scholars
• Graduate Community Fellows
• Annual CityLinks Conference
• Dayton’s Neighborhood School Centers
• AmeriCorps*VISTA
• National Issues Forums
• 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. It serves as a resource to local governmental, health, religious, educational, and social service agencies in developing solutions to the problems of families and the communities in which they live. The Fitz Center is committed to an integrated perspective on families and communities that draws on multiple disciplines. For more information, visit FDV in Academic Information.

Marianist Provincial Father William Ferreé 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 Ferreé Professor of Social Justice in the Fitz Center. The Ferreé 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 with a 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 Section VI, College of Arts and Sciences.
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, Lotus Notes, 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 50 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
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.
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. Following an analysis of the entire University Honors Program, and with the increased number of eligible students attending UD, the Berry Scholars Program has admitted its final class in Fall, 2009.

A maximum of thirty entering first-year students from all four undergraduate divisions are chosen from the pool of applicants. Participation in the program entitles these students to numerous benefits and privileges, including eligibility for the John W. Berry, Sr., Honors Scholarship. The Berry Scholars Program curriculum consists of a sequence of six required Scholars Seminars, an Honors Thesis project, and an optional Senior Colloquium in Faith and Reason. In most instances the seminars fulfill University General Education requirements and fit well into each student's regular course of study. The Honors Thesis is a major research or service-learning project selected by students in their junior year and completed, with the assistance of a faculty advisor or advisors, before graduation. Berry Scholars also are involved in service and/or leadership activities, and are encouraged to participate in an international or intercultural experience.

Berry Scholars are eligible for all housing, programming and financial benefits accorded to University Honors students, including thesis grants and funds from the Hull International Fellows Fund. They must maintain a 3.5 or better grade-point average to remain in the Program and to continue to receive the corresponding Berry scholarship.
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 crèches, 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: laity (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 interests; 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 Dan.Raisch@notes.udayton.edu.
Prelaw

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 research scientists, engineers, and technicians conduct basic and applied research. Most of these activities are externally funded and are conducted in the laboratories of the University of Dayton Research Institute.

Several hundred students are employed in research programs in accord with the University's emphasis on integration of research and instruction. In addition to financial benefits, this research participation provides students with valuable experience and an exposure to issues at the forefront of contemporary science and engineering.
Reserve Officers Training Corps (ROTC)

The Department of Military Science offers the Army ROTC training program on campus, leading to a commission as a second lieutenant in the U.S. Army at the time of graduation. For more information, visit the Department of Military Science in Academic Information.

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 have superior academic records. Students earn the designation "University Honors student" in one of two ways. Entering first-year students with outstanding academic credentials are accepted into the Honors Program 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 assumes reasonable 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 (English 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 completion of the CORE program, or through other designated Learning-Living communities. 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 Exhibit 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 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

Please select a subsection using the menu to the right.
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Academic Senate

### Officers of the University

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<td>Provost</td>
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<td>Vice President for Finance and Administrative Services</td>
<td>Thomas E. Burkhardt</td>
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<td>Vice President for Student Development and Dean of Students</td>
<td>Annette T. Schmeling, RSCJ</td>
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<td>Vice President for University Advancement</td>
<td>Deborah A. Read</td>
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<tr>
<td>Vice President for Research and Executive Director, University of Dayton Research Institute (UDRI)</td>
<td>Michael V. McCabe</td>
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<td>Vice President and Director of Athletics</td>
<td>Timothy J. Wabler</td>
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<td>Vice President for Human Resources</td>
<td>Joyce M. Carter</td>
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<td>Vice President for Enrollment Management</td>
<td>Sundar Kumarasamy</td>
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<td>Rector</td>
<td>Paul M. Marshall, S.M.</td>
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<td>Director, Campus Ministry</td>
<td>Christopher T. Wittmann, S.M.</td>
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### Office of the President

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<td>Executive Director, President's Office</td>
<td>Lynnette M. Heard</td>
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<td>Administrative Assistant to the President</td>
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### Academic Affairs

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<td>Executive Assistant to the Provost</td>
<td>Antionette M. Letavac</td>
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<td>Coordinator for Programs and Events and Board Liaison</td>
<td>Andrea M. Wade</td>
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<td>Director, Employee Relations for Academics</td>
<td>Vacant</td>
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<td>Vice President for Enrollment Management</td>
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<td>Assistant Vice President and Dean of Admission</td>
<td>Robert F. Durkle</td>
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<td>Director of Enrollment Strategies</td>
<td>Shane E. White</td>
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<td>Director of Financial Aid</td>
<td>Julia K. Harmon</td>
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<td>Assistant Vice President and Registrar</td>
<td>Thomas J. Westendorf</td>
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<td>Associate Registrar - Registration</td>
<td>Patsy L. Martin</td>
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<td>William M. Fischer</td>
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<td>Christine M. Schramm</td>
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<td>Assistant Vice President and Director of Counseling Center</td>
<td>Steven D. Mueller</td>
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<tr>
<td>Executive Director, Public Safety and Chief of Police</td>
<td>Bruce E. Burt</td>
</tr>
<tr>
<td>Director, Campus Recreation</td>
<td>Vacant</td>
</tr>
</tbody>
</table>
Associate Provost for Academic Affairs and Learning Initiatives and Director, Ryan C. Harris Learning-Teaching Center
Associate Director, LTC, Director, Office of Writing, Research, and New Media
Associate Director, LTC, Director, Curriculum Innovation and E-Learning
Associate Director, LTC, Director, Student Learning Services
Director, Career Services
Associate Director, Career Advising
Associate Director, Employer Relations and IT
Director, Center for International Programs
Programs Director, Education Abroad
Coordinator, International Student and Scholar Services
Academic Coordinator, Intensive English Program
Coordinator, International Communication
Coordinator, Partnership and Exchange
Director, University Honors Program
Associate Director
Associate Director, Distinguished Fellowship Advising
Assistant Director
Assistant Director, Academic Services
Assistant Director, Disability Services
Coordinator, Office of Academic Services for Student-Athletes (OASSA)
Coordinator, Office of Academic Services for Student-Athletes (OASSA)
Director, ArtStreet
Associate Provost and CIO
Assistant CIO, Financial and Administrative Operations, and Director, Systems Integration
Associate Director and Principal Architect, Network Services
Associate Director, IT Infrastructure and AV Systems Planning
Associate Director, IT Risk Management
Assistant CIO, Customer Relations, and Management
Director, Technology Support Services
Assistant Director, Customer Support
Assistant Director, Classroom Support
Director, Central Hardware Systems and Network Storage
Director, Curriculum Innovation and E-Learning
Director, Internet Development and Web Strategy
Director, IT Business Services
Director, Student and Business Information Systems
Associate Provost for Faculty and Administrative Affairs
Faculty Hiring Coordinator
Budget Analyst
Institutional Researcher for Academics
Director, Women's Center
Dean, College of Arts and Sciences
Associate Dean for Faculty Development and Graduate Programs
Associate Dean for Financial, Information, and Data Analysis
Associate Dean for Integrated Learning and Curriculum
Assistant Dean

Deborah J. Bickford
Stephen W. Wilhoit
David J. Wright
Elizabeth G. Harrison
Jason C. Eckert
Mark Sisson
Chris Wiley
Amy E. Anderson
Sally A. Raymont
Jane Hart
Karin Avial-John
Tricia M. Penno
Tina J. Manco
Patricia M. Hart
Andrew P. Murray
John P. McCombe
Jeanne R. Palermo
Dude J. Coudret
Brenda D. Cooper
Elizabeth A. Flach
Vera L. Gomes
Susan Byrnes
Thomas D. Skill
Susan S. McCabe
Michael C. Skelton
Jeremy S. Flohre
Dean S. Halter
Jacquise Y. Jackson
Jonathan C. Rike
Angela M. Parker
AJ J. Stern
David J. Wright
Vacant
Karen S. Bull
Victoria L. Adams
Joseph A. Untener
Amy Askren
Kerin M. Banfield
Elise A. Bernal
Lisa S. Rismiller
Paul H. Benson
Donald J. Polzella
Mary J. Brown
Donald L. Pair
John E. Erdei
Assistant Dean
Assistant Dean
Assistant Dean for Special Programs and
Continuing Education
Manager, Arts Series
Director, Institute for Pastoral Initiatives
Director, Fitz Center for Leadership in
Community
Director, Program for Christian Leadership
Director, Information Technology
Dean, School of Business Administration
Associate Dean
Associate Dean
Director, Undergraduate Programs and
Center for Academic Success
Senior Academic Advisor, Center for
Academic Success
Academic Advisor, Center for Academic
Success
Academic Advisor, Center for Academic
Success
Academic Advisor, Center for Academic
Success
Academic Advisor, Career for Academic
Success
Career Services Liaison
University Libraries Liaison
Director, MBA Program
Director, International Business Majors
Director, SBA Study Abroad Program
Director, Information Technology
Coordinator, Assurance of Learning
Director, L. William Crotty Center for
Entrepreneurial Leadership
Director, Richard P. and Susan P. Davis
Center for Portfolio Management
Interim Director, Hanley Group Derivatives
Trading Center
Director, Center for Integration of Faith
and Work
Executive Director, Business Services and
Executive Education
Director, Center for Leadership and
Executive Development
Director, Business Research Group
Director, Media Production Group
Dean, School of Education and Allied
Professions
Associate Dean for Administration
Executive Director, Institute for
Technology Enhanced Learning
Director, Center for Technology in
Education
Director, Office of Information
Technology
Director, Curriculum Materials Center
Director, Doctoral Studies
Director, Education Field Office
Director, Publications
Director, School Study Council of Ohio
Associate Dean for Community Outreach
Assistant Dean for Program Development
Director, Bombeck Family Learning
Center
Project Evaluation Associate, Project
Wellness
Program Director, Urban Teacher
Academy
Executive Director, Education Law
Association
Director, Accreditation Office

Rae Ellen Huff
Timothy A. Wilbers
Julie L. Mitchell
Eileen Carr
Angela A. Zuwkowski, M.H.S.H.
Richard T. Ferguson
Maura S. Donahue
Jeremy P. Mlzovksy
Matthew D. Shank
Elizabeth F. Gustafson
Paul Sweeney
John W. Shishoff
Janet R. Leonard
Jennifer Creech
Brad Balser
Deborah McKay Sexton
Shannon Penn
Sylvie Stewart
Joan Giglierano
Janice M. Glynn
William S. Sekely
Peter G. Wagner
Arthur R. Santoianni
Jayesh Prasad
Robert F. Chelle
David A. Sauer
Leslie McNew
Bro. Victor Forlani, S.M.
Peter A. Luongo
Robert F. Smith
Richard D. Stock
Michael R. Kurtz
Thomas J. Lasley, II
C. Daniel Raisch
James B. Rowley
Judith N. Oberlander
Josh S. Schrank
Ann M. Raney
A. William Place
Connie L. Bowman
Vacant
Paul E. Kulik
H. Roberta Weaver
Vacant
Diana J. Smith
Vacant
Cynthia C. Currell
Rochonda L. Nenonene
Vacant
Pamela Cross Young
Director, Research                                      Paul M. Vanderburgh
Director, Center for Catholic Education                                      Susan M. Ferguson
Dean, School of Engineering                                                  Tony E. Saliba
Associate Dean                                                             Malcolm W. Daniels
Assistant Dean for Undergraduate Advising and Retention                   Riad Alakkad
Assistant Dean for Recruitment and Continuous Improvement                John Weber
Manager, Engineering Computing and Information Services                      Maurice Riggins
Dean, Graduate School                                                     F. Thomas Eggemeier
Associate Dean                                                            Edward F. Mykytka
Assistant to the Dean                                                      Diane C. Helmick
Assistant to the Associate Dean                                            Linda M. Wallace
Dean, School of Law                                                        Lisa A. Kloopenberg
Associate Dean, Academic Affairs                                            Richard P. Perna
Business Manager                                                          Dru A. Bruns
Registrar                                                                  Linda L. Cole
Assistant Registrar                                                        Vacant
Manager, Information Technology                                             Margaret A. Thomas
Assistant Dean, Student Affairs                                              Lori E. Shaw
Assistant Dean, External Relations and Financial Aid                        Timothy P. Stonecash
Assistant Dean and Director, Admission                                      Janet L. Hein
and Director, Career Services                                              Timothy G. Swensen
Director, Law Library                                                       Thomas L. Hanley
Dean, University Libraries                                                 Kathleen M. Webb
Associate Dean for Collections and Operations                                Fred W. Jenkins
Director, Information Acquisition and Organization                         Emily A. Hicks
Director, Education and Information Delivery                                Hector Escobar
Director, Information Systems and Digital Access                           Frances E. Rice
Director, Marian Library                                                   Thomas A. Thompson, S.M.
Director, International Marian Research Institute (IMRI)                   Johann G. Roten, S.M.
University Archivist                                                        Kerrie A. Cross

Academic Departments

Accounting                                                              Chairpersons
Biology                                                                 Ron J. Burrows
Chemical and Materials Engineering                                      Jayne B. Robinson
Chemistry                                                                Vacant
Civil and Environmental Engineering and Engineering Mechanics            Mark B. Masthay
Communication                                                           (Interim) Don Chase
Computer Science                                                         Jonathan A. Hess
Counselor Education and Human Services                                   James P. Buckley
Economics and Finance                                                    Alan D. Demmitt
Educational Leadership                                                   (Interim) John Rapp
Electrical and Computer Engineering                                      Joseph D. Massucci
Engineering Technology                                                   (Interim) Donald L. Moon
English                                                                  Scott I. Segalewitz
Geology                                                                  Sheila Hassell Hughes
Health and Sport Science                                                 Allen J. McGrew
History                                                                  Paul M. Vanderburgh
Languages                                                                Julius A. Amin
Management and Marketing                                                 Francisco Peñas-Bermejo
MIS, Operations Management and Decision Sciences                         Dean B. McFarlin
Mathematics                                                              Charles E. Wells
Mechanical and Aerospace Engineering                                      Joe D. Mashburn
Military Science                                                         Kevin P. Hallinan
Music                                                                    Charles G. Schretzman
Philosophy                                                               Sharon D. Gratto
                                                                       John A. Inglis
<table>
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<th>Academic Programs</th>
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<tr>
<td>American Studies</td>
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<tr>
<td>CORE</td>
<td>Danielle M. Poe</td>
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<tr>
<td>Criminal Justice Studies</td>
<td>Arthur J. Jipson</td>
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<tr>
<td>Dietetics</td>
<td>Patricia E. Dolan</td>
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<tr>
<td>Doctor of Physical Therapy</td>
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<td>Electro-Optics</td>
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<td>Engineering Management and Systems</td>
<td>Patrick Sweeney</td>
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<td>Human Rights Studies</td>
<td>Mark Ensalaco</td>
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<td>Darrell F. Anderson</td>
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<td>Women's and Gender Studies</td>
<td>Rebecca S. Whisnant</td>
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<tr>
<td>Dean, University Libraries</td>
<td>Kathleen M. Webb</td>
</tr>
<tr>
<td>Director, Education &amp; Information Delivery</td>
<td>Hector Escobar</td>
</tr>
<tr>
<td>Coordinator, Access Services</td>
<td>Ashley Quinn</td>
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<tr>
<td>Coordinator, Reference and Instruction</td>
<td>Heidi Gauder</td>
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<tr>
<td>Associate Dean for Collections and Operations</td>
<td>Fred W. Jenkins</td>
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<td>Kerrie A. Cross</td>
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<td>Johann G. Roten, S.M.</td>
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<tr>
<td>Vice President for Research and Executive</td>
<td>Michael V. McCabe</td>
</tr>
<tr>
<td>Director, Research Institute</td>
<td>John E. Leland</td>
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<tr>
<td>Director, Research Institute</td>
<td>Allan S. Crasto</td>
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<tr>
<td>Associate Director, Research Institute</td>
<td>Daniel R. Bowman</td>
</tr>
<tr>
<td>Division Head, Aerospace Mechanics</td>
<td>Dillip R. Ballal</td>
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<tr>
<td>Division Head, Energy and Environmental Engineering</td>
<td>Peter O. Sjoblom</td>
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<tr>
<td>Division Head, Metals and Ceramics</td>
<td>Daniel P. Kramer</td>
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<tr>
<td>Division Head, Multiscalar Composites and Polymers</td>
<td>Brian P. Rice</td>
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<tr>
<td>Division Head, Nonstructural Materials</td>
<td>Susan S. Saliba</td>
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<tr>
<td>Division Head, Structural Integrity</td>
<td>Michael P. Bouchard</td>
</tr>
<tr>
<td>Head, Sensor Technology Office</td>
<td>Larrell B. Walters</td>
</tr>
<tr>
<td>Head, Sustainment Technologies Integration Office</td>
<td>David K. Calder</td>
</tr>
<tr>
<td>Assistant to the Director, Research Institute</td>
<td>Diana M. Muhlenkamp</td>
</tr>
<tr>
<td>Director, Contracts and Grants</td>
<td>Claudette M. Groeber</td>
</tr>
<tr>
<td>Government Security</td>
<td>Robert P. Boehmer</td>
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<tr>
<td>Administrator, Purchasing Agent and Property</td>
<td>Jon J. Borgwardt</td>
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<tr>
<td>Controller</td>
<td>John U. Weckesser</td>
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<tr>
<td>Administrator, Accounting</td>
<td>Kathleen R. Weisenbach</td>
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<tr>
<td>Manager, Information Technologies</td>
<td>D. Kiefer Campbell</td>
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</table>
Director, Technology Partnerships  
Communication Administrator  

Mathew E. Willenbrink  
Pamela L. Gregg

Campus Ministry

Director  
Assistant Director, Residence Life  
Assistant Director, Director of Center for Social Concern  
Director, Retreats and Faith Communities  
Campus Ministers  

Christopher T. Wittmann, S.M.  
Crystal Sullivan  
Nicholas Cardilino  
David Conard  
Kelly Bohrer  
Patrick Cashio  
Gerald Chinchar, S.M.  
Jenna Connor  
John DeWyze  
Teri Dickison  
Katie Diller  
Bridget Ebbert  
Nicole Eggebeen  
Mary Louise Foley, F.M.I.  
LaKendra Hardware  
Jeremy Helmes  
Linda L. Jackson, O.P.  
Terri Lauer  
Allison Leigh  
Allison McCarthy  
Mary Neibler  
Colleen O'Grady  
James Pera  
Thomas Pieper, S.M.  
Kathleen Rossman, O.S.F.  
Kathy Sales  
Jim Schimeelpfenning, S.M.  
Emily Strand  
Sue Terbay  
Nicole Trahan, F.M.I.  
Emily VanAlta

Finance and Administrative Services

Vice President for Finance and Administrative Services  
Internal Auditor  
Investment Officer  
Assistant Vice President for Finance  
Director, Student Accounts/Bursar  
Director, Purchases and Business Services  
Executive Director, Facilities Management  
Director, University Campus Planning  
Director, Legal Affairs/University Counsel  
Director, Institutional Reporting  
Vice President for Human Resources  
Director, Dining Services  

Thomas E. Burkhardt  
Ann M. Garcia  
Delanie S. Moler  
Thomas J. Weckesser  
David Necessary  
Ken R. Soucy  
Beth H. Keyes  
Richard G. Perales  
John E. Hart  
Susan K. Sexton  
Joyce M. Carter  
Paula H. Smith

Human Resources

Vice President for Human Resources  
Director, Employee Relations  
Manager, Employee Relations  
Manager, Employee Relations  
Director, Compensation and Benefits  
Manager, Benefits  
Manager, Compensation  
Director, Human Resources  
Information Systems  
HRIS Analyst  
Manager, Learning and Development  
Manager, Employment  

Joyce M. Carter  
Troy W. Washington  
M. Lee Morgan  
Mary Ann Dodaro  
Kathleen J. Molnar  
Elizabeth A. Schwartz  
Jean W. Perry  
Linda C. Nianouris  
Stefanie M. Rich  
Celine M. O'Neili  
Jennifer G. Duwel
### Student Development

<table>
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<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Vice President for Student Development and Dean of Students</td>
<td>Annette T. Schmeling, RSCJ</td>
</tr>
<tr>
<td>Associate Vice President for Student Development</td>
<td>William M. Fischer</td>
</tr>
<tr>
<td>Assistant Dean of Students and Director of Residence Life</td>
<td>Vacant</td>
</tr>
<tr>
<td>Assistant Director of Residence Life, First-Year Experience and Traditional Housing</td>
<td>Steven T. Herndon</td>
</tr>
<tr>
<td>Assistant Director of Residence Life, Upperclass Experience</td>
<td>Rachel L. Wagner</td>
</tr>
<tr>
<td>Assistant Director of Residence Life, Operations</td>
<td>Judith C. Caruso</td>
</tr>
<tr>
<td>Associate Director of Residence Life, Assignments</td>
<td>Constance A. Robertson</td>
</tr>
<tr>
<td>Assistant Dean of Students and Director of Community Standards and Civility</td>
<td>Debra P. Monk</td>
</tr>
<tr>
<td>Assistant Director, Community Standards and Civility</td>
<td>Vacant</td>
</tr>
<tr>
<td>Executive Director, Public Safety and Chief of Police</td>
<td>Bruce E. Burt</td>
</tr>
<tr>
<td>Campus Communications and Physical Security Administrator</td>
<td>Randall P. Groesbeck</td>
</tr>
<tr>
<td>Chief of Operations</td>
<td>Larry B. Dickey</td>
</tr>
<tr>
<td>Director, Parking Services</td>
<td>Darlene S. Holder</td>
</tr>
<tr>
<td>Programs Manager</td>
<td>Robert Coyle</td>
</tr>
<tr>
<td>Assistant Vice President and Director of Leadership Programs</td>
<td>Christine M. Schramm</td>
</tr>
<tr>
<td>Assistant Dean of Students and Multicultural Affairs</td>
<td>Vacant</td>
</tr>
<tr>
<td>Assistant Director, Leadership Initiatives</td>
<td>Daria Y. Graham</td>
</tr>
<tr>
<td>Assistant Director, Student Services</td>
<td>Jessica Gonzalez</td>
</tr>
<tr>
<td>Academic Success Specialist</td>
<td>Mel Brown</td>
</tr>
<tr>
<td>Academic Success Specialist</td>
<td>Shannon Penn</td>
</tr>
<tr>
<td>Director, Student Life and Kennedy Union</td>
<td>Amy D. Lopez-Matthews</td>
</tr>
<tr>
<td>Assistant Director, Student Life</td>
<td>Lou E. Talbot</td>
</tr>
<tr>
<td>Assistant Director, Programming</td>
<td>Carlos T. Stewart</td>
</tr>
<tr>
<td>Assistant Director, KU Operations</td>
<td>Mark J. Albers</td>
</tr>
<tr>
<td>Assistant Director, Conference and Business Services</td>
<td>Gwyn F. Stump</td>
</tr>
<tr>
<td>Assistant Director, Scheduling and Events</td>
<td>Amy V. Lee</td>
</tr>
<tr>
<td>Assistant Director, Information Systems and Technology</td>
<td>Brandy A. Mapes</td>
</tr>
<tr>
<td>Director, New Student Programs</td>
<td>Cari S. Wallace</td>
</tr>
<tr>
<td>Assistant Director, New Student Programming</td>
<td>Vacant</td>
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<tr>
<td>Associate Director, Leadership Programs</td>
<td>Vacant</td>
</tr>
<tr>
<td>Assistant Director, Leadership Programs/Greek Life</td>
<td>Melissa T. Fianagan</td>
</tr>
<tr>
<td>Vice President and Director of Counseling Center</td>
<td>Steven D. Mueller</td>
</tr>
<tr>
<td>Director, Campus Recreation</td>
<td>Vacant</td>
</tr>
<tr>
<td>Associate Director, Campus Recreation</td>
<td>David B. Ostrander</td>
</tr>
<tr>
<td>Associate Director, Campus Recreation</td>
<td>Donn W. Shade</td>
</tr>
<tr>
<td>Director, Student Health</td>
<td>Mary P. Buchwalder, M.D.</td>
</tr>
<tr>
<td>Assistant Dean of Students and Wellness Community Director</td>
<td>Vacant</td>
</tr>
<tr>
<td>Associate Director, Counseling Center</td>
<td>Stephen Richey-Suttles</td>
</tr>
<tr>
<td>Assistant Director, Counseling Center Relations</td>
<td>Rebecca Cook</td>
</tr>
<tr>
<td>Director, Communications and Community Relations</td>
<td>Edel M. Jesse</td>
</tr>
<tr>
<td>Director, Information Technology</td>
<td>Brian S. Turner</td>
</tr>
<tr>
<td>Associate Director, Technology</td>
<td>Robin L. Shuleski</td>
</tr>
<tr>
<td>Finance Manager</td>
<td>Daniel J. Craighead</td>
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**University Advancement**

<table>
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<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Vice President for University Advancement</td>
<td>Deborah A. W. Read</td>
</tr>
<tr>
<td>Executive Assistant to the Vice President</td>
<td>Karla T. Brooks</td>
</tr>
<tr>
<td>Interim Assistant Vice President for Advancement</td>
<td>Joyce E. Dean</td>
</tr>
<tr>
<td>Interim Assistant Vice President, Alumni Outreach</td>
<td>Todd W. Imwalle</td>
</tr>
<tr>
<td>Associate Vice President, University Communications</td>
<td>Teresa J. Rizvi</td>
</tr>
<tr>
<td>Assistant Vice President, University Marketing</td>
<td>Tracy A. Hughes</td>
</tr>
<tr>
<td>Interim Associate Vice President for Development and Campaign Manager</td>
<td>Nancy B. Stork</td>
</tr>
<tr>
<td>Director, Campaign Strategies and Special Projects</td>
<td>James F. Brothers</td>
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**Athletic Programs and Facilities**

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<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Vice President/Director of Athletics</td>
<td>Tim Wabler</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>
</tr>
<tr>
<td>Assistant Director, Athletics/Compliance Manager</td>
<td>Neil Sullivan</td>
</tr>
<tr>
<td>Associate Director, Athletics/Director of Athletic Performance</td>
<td>Joe Owens</td>
</tr>
<tr>
<td>Senior Associate Director, Athletics/Director of UD Arena and Arena Sports Complex</td>
<td>Tim O'Connell</td>
</tr>
<tr>
<td>Director, Men's Basketball Season Tickets</td>
<td>Gary McCans</td>
</tr>
<tr>
<td>Senior Associate Director, Athletics/Development</td>
<td>Dave Harper</td>
</tr>
<tr>
<td>Senior Associate Director, Athletics/Sports Program Administration</td>
<td>Mike Kelly</td>
</tr>
<tr>
<td>Assistant Director, Athletics/Frericks Center Equipment and Transportation</td>
<td>Ken Keck</td>
</tr>
<tr>
<td>Academic Counselor</td>
<td>Elizabeth Flach</td>
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<td>Vera Gomes</td>
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<tr>
<td>Director, Sports Information</td>
<td>Doug Hauschild</td>
</tr>
<tr>
<td>Assistant Director, Communications</td>
<td>Seth Iames</td>
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<td>Assistant Director, Communications/Publications</td>
<td>Jenny Storer</td>
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<td>Assistant Director, Communications</td>
<td>Krystal Warren</td>
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<td>Assistant Director, Manager of Multimedia Marketing</td>
<td>Michael LaFlaca</td>
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<td>Assistant Director, Athletics/Business Manager</td>
<td>Megan Pease</td>
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<td>Assistant Athletics Business Manager</td>
<td>Margaret Gantt</td>
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<tr>
<td>Basketball Strength &amp; Conditioning Coach</td>
<td>Mike Bewley</td>
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<tr>
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<td>Mark Thobe</td>
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<tr>
<td>Head Baseball Coach</td>
<td>Tony Vittorio</td>
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<tr>
<td>Associate Head Baseball Coach</td>
<td>Todd Linklater</td>
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<tr>
<td>Men's Head Basketball Coach</td>
<td>Brian Gregory</td>
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<tr>
<td>Assistant Coaches</td>
<td>Jon Borovich, Cornell Mann, Billy Schmidt</td>
</tr>
<tr>
<td>Basketball Operations Coordinator</td>
<td>Matthew Farrell</td>
</tr>
<tr>
<td>Women's Head Basketball Coach</td>
<td>Jim Jabir</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Leslie Dickinson, Kyle Rechlicz, Angie Russell</td>
</tr>
<tr>
<td>Basketball Operations Coordinator</td>
<td>Frank Goldsberry</td>
</tr>
<tr>
<td>Men's Cross Country Coach</td>
<td>Rich Davis</td>
</tr>
<tr>
<td>Women's Cross Country Coach</td>
<td>Ann Alyanak</td>
</tr>
<tr>
<td>Women's Head Track &amp; Field Coach</td>
<td>Adam Steinwachs</td>
</tr>
<tr>
<td>Head Football Coach</td>
<td>Rick Chamberlin</td>
</tr>
<tr>
<td>Assistant Coaches</td>
<td>Landon Fox, Chris Ochs, Dave Whilding</td>
</tr>
<tr>
<td>Men's Head Golf Coach</td>
<td>Gip Hoagland</td>
</tr>
</tbody>
</table>
Women's Head Golf Coach  
Women's Head Rowing Coach  
Men's Head Soccer Coach  
Assistant Coaches  
Women's Head Soccer Coach  
Assistant Coaches  
Head Softball Coach  
Assistant Coach  
Men's Tennis Coach  
Women's Tennis Coach  
Head Volleyball Coach  
Assistant Coaches  
Manager of Sports Medicine  
Head Trainer  
Assistant Trainers  
Equipment & Awards Manager  
Faculty Athletics Representative

Sally Kosters  
Derek Copeland  
Dennis Currier  
Chase Brooks, Ricardo Lara  
Mike Tucker  
Tania Armellino, Sergio Gonzalez  
Cara Clark  
Sarah Harman  
Vacant  
Vacant  
Kelly Sheffield  
Matt Affolder, Brittany Dildine  
Nate Seymour  
Steve Foster  
Jaime Potter, Kaname  
Yamaguchi  
Tony Caruso  
J. Michael O'Hare, Ph.D.
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.
Bohlen, George A (1980), Management Information Systems and Decision Sciences- B.S.M.E., Clemson University, 1958; M.S.I.E., Purdue University, 1963; M.S.B.A., George Washington University, 1968; Ph.D., Purdue University, 1973.
Chuang, Henry N. (1965), Mechanical and Aerospace Engineering- B.S., National Taiwan University, 1958; M.S., University of Maryland, 1962; Ph.D., Carnegie Institute of Technology, 1966; Reg. Prof. Engr.
Comer, Orville L. (1950), Marketing- B.S., Washington University, 1948; M.S., 1949.
Drees, Doris A. (1956), Health 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.

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., University of Wisconsin, 1958; M.S., 1961; Ph.D., Ohio State University, 1974.


Graham, Thomas P. (1964), Physics - B.S., Providence College, 1956; Ph.D., Iowa State University, 1967.


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


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


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.
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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.


Steiner, Wilfred J. (1946), History - A.B., Loras College, 1936; M.A., Harvard University, 1938; Ph.D., Ohio State University, 1957.


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.


Wilder, Jesse H. (1953), Mechanical Engineering Technology - B.S.M.E., Duke University, 1947; M.S., State University of Iowa, 1949; Reg. Prof. Engr.


DIRECTOR OF ADMISSION EMERITUS


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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.

Schmidt, Bernhard M. (1948), Electrical Engineering - B.E.E., University of Dayton, 1942; M.S., Ohio State University, 1957; Ph.D., 1963; Reg.
Prof. Engr.

DISTINGUISHED TEACHING PROFESSOR


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

Arndt-Marquette, 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.


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.

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Benbow, Mark E. (2008), Biology, Assistant Professor - B.S., University of Dayton, 1994; Ph.D., 1999.

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Bennett, Jeffery (2008), Philosophy, Lecturer - B.A., West Virginia University, 1975; M.A., Wayne State University, 1982.


Biddle, James R. (1990), Teacher Education, Associate Professor - B.A,


Bigelow, Kim (2009). Mechanical 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., Ohio State University, 2005; Ph.D., 2008.


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.


Brar, Nahhatter S. (1986). Mechanical and Aerospace Engineering, Associate Professor - B.S., University of the Punjab, 1962; M.S., 1965; M.S., Trent University, 1971; Ph.D., University of Western Ontario, 1979.

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


Burky, Albert J. (1973), Biology, Professor - B.A., Hartwick College, 1964; Ph.D., Syracuse University, 1969.


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Castellano, Joseph F. (1999), Accounting, Professor - B.S., St. Louis University, 1954; M.S., 1965; Ph.D., 1971.


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Chiasson, Andrew (2009), Mechanical and Aerospace Engineering, Assistant Professor - B.S., University of Windsor, 1989; M.S., 1992; M.S., Oklahoma State University, 1999; Ph.D., University of Wyoming,
Chi, Andria J. (1968), Languages, Assistant Professor - B.A., University of Oregon, 1966; M.A., 1968.

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


Combs, Jason (2005), Communication, Lecturer - B.A., University of Dayton, 1996; M.A., 1998; Ph.D., Purdue University, 2006.

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.


Conte, Francis J. (1987), Law, Professor - B.A., Pennsylvania State University, 1964; J.D., University of Texas, 1969.

Cook, Rebecca Ann (2002), Counseling Center, Administrative - B.S., Purdue University, 1976; M.S., Indiana University, 1980; 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.


Cox, Jeannette (2006), School of Law, Assistant Professor - B.A., Hanover College, 2001; J.D., Notre Dame Law School, 2005.

Craver, Bruce A. (1978), Physics, Associate Professor - B.S., Purdue University, 1969; M.S., 1971; Ph.D., 1976.

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Cross, Kerrie A. (1993), Library, Associate Professor - B.A., University of Dayton, 1987; M.A., Wright State University, 1996.

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


Crutcher, Robert J. (2001), Psychology, Associate Professor - A.B.
University of California, Berkeley, 1974; M.A., University of Colorado at Boulder, 1989; Ph.D., 1992.


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

Dai, Liming (2004), Chemical and Materials Engineering and UDRI, Professor, Wright Brothers Institute Endowed Chair in Nanomaterials - B.S., Zheijiang University, 1983; Ph.D. Australian National University, 1991.

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


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


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.

DeHart, Rachel (2008), Library, Lecturer and University Archivist - B.A., Miami University, 2005; M.A., Wright State University, 2008.

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Denmitt, Alan (1996), Counselor Education and Human Services, Associate Professor - B.Th., Atlanta Bible College, 1982; M.A., Northeast Louisiana University, 1991; Ph.D., Iowa State University, 1994.


Dixon, Lee (2009), Psychology, Assistant Professor - B.A., Western Kentucky University, 2000; M.A., 2002.

Doepker, 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.

Dolan, Patricia E. (1999), Health and Sport Science, Visiting Assistant Professor - B.S., University of Cincinnati, 1979; M.S., University of Dayton, 1991.

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, Assistant 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.


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., Bogazrasi 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.

Endres, Thomas E. (1987), Mechanical and Aerospace Engineering, Associate Professor - B.M.E., University of Dayton, 1966; M.S.M.E., 1969; Reg. Prof. Engr.


Erdei, John E. (1983), Physics, Associate Professor - B.Sc., Cleveland State University, 1973; M.S., 1976; Ph.D., University of Cincinnati, 1983.

Ervin, Jamie S. (1992), 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, Assistant Professor - B.S., University of Dar-Es-Salaamm, 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.


Flanagan, Melissa T. (1989), Student Activities, Administrative - B.S.,
Western Illinois University, 1986; M.A., Bowling Green State University, 1988.


Fleischmann, Ellen L. (1998), History, Assistant 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.


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

Fries, 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.

Froehlich, Robert J. (2001), School of Business Administration, Executive-in-Residence - B.A., University of Dayton, 1975; M.P.A., Central Michigan University, 1976; M.S., 1978; Ph.D., California Western University, 1979.

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


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

Gardner, Paul R. (2006), Chemistry, Visiting Assistant Professor - B.S., Ohio State University, 1984; Ph.D., Duke University, 1990.


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.


Giglierano, Joan (2006), Library, Assistant 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.


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.

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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.

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Harber, Brian (2007), Military Science, Assistant Professor - B.S., Wayland Baptist University, 2005.

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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, Alumni Chair in the Humanities - B.S., Davidson College, 1970; M.A., Clemson University, 1974; Ph.D., Johns Hopkins University, 1983.


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Hovey, Peter W. (2001), Mathematics, Associate Professor - B.S., University of Dayton, 1975; M.S., University of Kentucky, 1977; Ph.D., 1980.


Hu, Benjamin G. (1994), Law Library, Assistant Professor - B.A., East China Normal University, 1985; M.A., University of Akron, 1988; M.L.S.,
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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, Assistant 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, Denise V. (2008), Philosophy, Assistant Professor - B.A., Spellman College, 1997; M.A., Emory University, 2007.

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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.

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Kirschman, Keri (2005), Psychology, Assistant 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.


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Krane, Carissa M. (2001), Biology, Associate Professor - B.S., Marquette University, 1990; Ph.D., Washington University, 1996.


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Lain, Laurence B. (1976), Communication, Professor - B.S., Indiana State University, 1966; M.A.E., Ball State University, 1973; Ph.D., Ohio State University, 1984.


Larson, Robert K. (2001), Accounting, Associate Professor - B.S., George Fox College, 1980; M.B.A., Portland State University, 1987; Ph.D., University of Utah, 1993.


Lau, Terence J. (2002), Management and Marketing, Associate Professor - B.A., Wright State University, 1995; J.D., Syracuse University, 1998.

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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.


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University of Georgia, 2001; Ph.D. (Mathematics), 2002.
Liu, Shiqiang (1990), Materials Engineering, Professor - B.S., Beijing University of Science and Technology, 1967; M.S., 1980; Ph.D., University of Dayton, 1989.
MacLachlan, Heather (2009), Music, Assistant Professor - B.M.A., University of Manitoba, 1995; B.E., 1995; M.A., Cornell University, 2007.
Martorano, Nancy A. (2002), Political Science, Associate Professor - B.A., Clemson University, 1995; M.A., Rice University, 2000; Ph.D., 2002.
McCombe, John P. (2001), English, Associate Professor - B.S., University


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McLeod, Alexus (2009), Philosophy, Assistant Professor - B.A., University of Maryland, 2002; M.A., University of Oklahoma, 2005.


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Miller, Sheila (2004), Law, Assistant Professor - B.A., Miami University, 1983; J.D., University of Cincinnati, 1987.


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Mosser, Kurt (1992), Philosophy, Associate Professor - B.A., Southern Methodist University, 1979; M.A., University of Chicago, 1982; Ph.D., 1990.

Moulin, Eugene K. (1968), Counselor Education and Human Services, Professor - B.A., Mount Union College, 1956; M.E., Kent State University, 1959; Ph.D., University of Toledo, 1968.


Mueller-Hansen, Karolyn (2009), Biology, Assistant Professor - B.S., Pennsylvania State University, 1980; M.S., Drexel University, 1984; Ph.D., University of Delaware, 1990.


Murray, Andrew P. (1996), Mechanical and Aerospace Engineering, Associate Professor - B.S., Rose-Hulman Institute of Technology, 1989; M.S., University of California, Irvine, 1993; Ph.D., 1996.

Murray, Paul T. (1982), Materials Engineering, Professor - B.S., University of Cincinnati, 1974; Ph.D., University of North Carolina, 1979.


Neeley, Grant (2005), Political Science, Associate Professor - B.A., Texas A&M University, 1989; M.P.A., 1991; Ph.D., University of Tennessee, 1996.


Nielsen, Mark G. (2001), Biology, Associate Professor - B.A., Oberlin College, 1988; Ph.D., Stanford University, 1994.


Oberlander, Judith (1987), Institute for Technology-Enhanced Learning, Administrative - B.A., University of Dayton, 1969; M.S., 1987; Ph.D.,
O'Brien, David (2009), Religious Studies, Distinguished Visiting Professor and University Professor of Faith and Culture - B.A., University of Notre Dame, 1960; Ph.D., University of Rochester, 1964.

O'Gorman, John M. (1999), Library, Associate Professor - B.A., Walsh University, 1981; M.L.S., St. John's University, 1983.


Ordóñez, Raúl, E. (2001), Electrical and Computer Engineering, Assistant Professor - B.S., Monterrey Institute of Technology, 1994; M.S., Ohio State University, 1996; Ph.D., 1999.

Orji, Cyril (2005), Religious Studies, Assistant Professor - B.A, University of Ibadan, 1990; M.Div, Dominican House of Studies, 1994; M.Ed., North Dakota State University, 2003; Ph.D., Marquette University, 2005.

Pair, Donald L. (1991), Geology, Professor - B.S., St. Lawrence University, 1983; M.Sc., University of Waterloo, 1986; Ph.D., Syracuse University, 1991.


Pan, Yue (2003), Management and Marketing, Associate Professor - B.A., Tsinghua University, 1996; B.Eco., 1996; M. Eng., 1996; Ph.D., University of Georgia, 2003.


Pautz, Michelle (2008), Political Science, Assistant Professor - B.A., Elon University, 2003; M.A., Virginia Polytechnic Institute, 2005; Ph.D., 2008.

Payne, Michael A. (1977), Philosophy, Associate Professor - B.A., Xavier University, 1966; M.A., Boston College, 1970; Ph.D., University of Georgia, 1972.

Pedrotti, Leno M. (1987), Physics, Professor - B.A., Wright State University, 1981; Ph.D., University of New Mexico, 1986.

Peeler, Deborah (1995), Engineering Management and Systems, Adjunct Professor - B.S., Purdue University, 1977; M.S., University of Cincinnati, 1979; J.D., Salmon P. Chase College of Law, 1983; Ph.D., University of Dayton, 1992; Reg. Prof. Engr.


Perugini, Saverio, Jr. (2004), Computer Science, Assistant Professor - B.S., Villanova University, 1998; M.S., Virginia Polytechnic Institute and State University, 2001; Ph.D., 2004.


Petrykowski, John C. (1985), Mechanical and Aerospace Engineering, Associate Professor - B.S., University of Wisconsin, 1975; M.S., University of Illinois, 1978; Ph.D., 1981.


Phebus, Kyle (2002), Visual Arts, Associate Professor - B.S., Ball State


Pierce, Jason L. (2002), Political Science, Associate Professor - B.A., Southwestern University, 1994; Ph.D., University of Texas-Austin, 2002.


Place, A. William (1994), Educational Leadership, Associate Professor - B.S., University of Dayton, 1976; M.S., 1980; Ph.D., Ohio State University, 1988.

Poe, Danielle M. (2001), Philosophy, Associate Professor - B.A., Seattle University, 1995; M.A., Catholic University, Belgium; 1997; Ph.D., Fordham University, 2001.


Polzella, Donald J. (1972), Psychology, Professor - B.A., University of Rochester, 1967; M.A., Bucknell University, 1969; Ph.D., University of Michigan, 1974.


Powers, Peter E. (1997), Physics, Professor - B.S., Massachusetts Institute of Technology, 1988; M.S., Cornell University, 1990; Ph.D., 1994.


Qumsiyeh, Maher (2008), Mathematics, Assistant Professor - M.A., Indiana University, 1979; Ph.D., 1988.


Reid, Patricia (2009), History, Assistant Professor - B.A., California State University, 1989; M.A., University of Iowa, 1995; Ph.D., 2006.

Reilly, Tracy L. (2006), School of Law, Assistant Professor - B.A., Northern Illinois University, 1990; J.D., Valparaiso University School of Law, 1995.


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Robinson, James D. (1982), Communication, Professor - B.A., University of the Pacific, 1978; M.A., West Virginia University, 1979; Ph.D., Purdue University, 1982.


Robinson, Jayne B. (1994), Biology, Professor - B.S., Bowling Green State University, 1978; M.S., Ohio State University, 1984; Ph.D., 1991.


Rowe, John J. (1977), Biology, Professor - B.S., Colorado State University, 1968; M.S., Arizona State University, 1971; Ph.D., University of Kansas Medical Center, 1975.

Rowley, James B. (1989), Teacher Education, Professor - B.S., University of Dayton, 1969; M.S., Miami University, 1974; Ph.D., Ohio State University, 1989.


Management, and Decision Sciences, Assistant Professor - B.B.A., Ohio University, 1986; M.B.A., Miami University, 1988; Ph.D., University of Calgary, 1996.


Sandy, Michael R. (1987), Geology, Professor - B.S., Queen Mary College, University of London, 1980; Ph.D., 1984.

Santamarina, Juan C. (1997), History, Associate Professor - B.A., University of Wisconsin-Madison, 1989; Ph.D., Rutgers University, 1995.


Sathish, Samachary (1999), Materials Engineering, Adjunct Associate Professor - B.S., University of Mysore, 1974; M.S., 1976; Ph.D., 1986.


Scheller, Scheller A. (1989), Counselor Education and Human Services, Associate Professor - B.A., Ohio State University, 1987; M.S., University of Texas-Austin, 1989; Ph.D., Ohio University, 1999.

Schauer, John J. (1968), Mechanical and Aerospace Engineering, Professor - B.M.E., University of Dayton, 1958; M.S., Carnegie Institute of Technology, 1959; Ph.D., Stanford University, 1964.


Scheuermann, George (2007), Teacher Education, Clinical Faculty - B.A., Case Western Reserve University, 1974; M.A., Miami University, 1976.


Searcy, E. Dale (1976), Law, Professor - B.S., General Motors Institute, 1959; J.D., Indiana University, 1963; LL.M., New York University, 1966.

Seitzer, Jennifer (1998), Computer Science, Associate Professor - B.M., West Chester State College, 1982; B.S., Arizona State University, 1985; M.S., University of Cincinnati, 1993; Ph.D., 1997.


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


Sidhu, Sukhjinder S. (1992), Mechanical and Aerospace Engineering, Professor - B.S., Osmania University, 1987; M.S., University of Illinois, 1991; Ph.D., 1992.


Singh, Amit (2007), Biology, Assistant Professor - B.S., H.P. University, 1988; M.S., Devi Ahilya University, 1990; Ph.D., 1995.


Slade, R. Andrew (2003), English, Assistant Professor - B.A., Seattle University, 1995; B.A., Katholieke Universiteit Leuven, 1996; Ph.D., State University of New York at Stony Brook, 2004.


Smith, Todd B. (2001), Physics, Associate Professor - B.S., University of Notre Dame, 1989; M.A., Miami University, 1990; M.S., University of Michigan, 1995; Ph.D., 1998.


Sparks, John R. (1995), Management and Marketing, Associate Professor - B.B.A., West Texas State University, 1988; Ph.D., Texas Tech University, 1995.

Sriraman, R. (1999), Computer Science, Associate Professor - B.Tech., Indian University of Technology, 1985; M.S., Vanderbilt University, 1988; Ph.D., 1995.


Summers, Donna C. S. (1984), Engineering Technology, Professor - B.S.M.E., University of Cincinnati, 1982; M.S.I.E., Purdue University, 1984; Ph.D., University of Cincinnati, 1991.

Swavey, Shawn M. (2002), Chemistry, Associate Professor - B.S., Edinboro
University, 1991; M.S., Case Western Reserve University, 1995; Ph.D., 1998.
Szego, Tereza (2009), English, Assistant Professor - B.A., University of Cincinnati, 2000; M.A., University of Arizona, 2004; Ph.D., 2007.
Taha, Tarek (2009), Electrical and Computer Engineering, Assistant Professor - B.A., DePauw University, 1996; B.S.E.E., Georgia Institute of Technology, 1996; M.S.E.E., 1998; Ph.D., 2002.
Tanova, Nadya (2009), Languages, Lecturer - M.A., University of Sofia, 1990; M.A., Purdue University, 2003.
Taylor, Annette M. (1988), Communication, Assistant Professor - B.A., Michigan State University, 1974; M.A., 1988; Ph.D., Bowling Green State University, 1996.
Thompson, Teresa L. (1985), Communication, Professor - B.A., University of Wisconsin, 1975; M.A., Purdue University, 1976; Ph.D., Temple University, 1980.
Tibbetts, Paul E., Jr. (1969), Philosophy, Professor - B.A., Clark University, 1964; M.A., Boston University, 1965; Ph.D., Purdue University, 1973; Ph.D., University of Illinois, 1985.
Tillman, Beverly A. (1990), Teacher Education, Associate Professor - B.S., Miami University, 1974; M.A., University of Michigan, 1975; Ph.D., Ohio State University, 1992.
Tittlebaum, Peter J. (1996), Health and Sport Science, Associate Professor - B.S., State University of New York at Brockport, 1982; M.S., Ohio State University, 1985; Ph.D., Temple University, 1993.
Tsonis, Panagiotis A. (1989), Biology, Professor - B.S., Patras University, 1977; M.S., Nagoya University, 1980; Ph.D., 1983.
Uhlman, Todd (2009), History, Lecturer - B.A., Indiana University, 1998; Ph.D., Rutgers University, 2008.
Untener, Joseph A. (1987), Engineering Technology, Professor - B.M.E., General Motors Institute, 1984; M.S., Purdue University, 1985; Reg. Prof. Engr.
Usman, Mohammad (2007), Mathematics, Assistant Professor - M.S., Ohio University; M.A., 2001; Ph.D., University of Cincinnati, 2007.


Van Zandt, Victoria (2005), School of Law, Assistant Professor - B.A., Ohio State University, 1991; J.D., University of Dayton, 1996.


Venard, Paul (2007), Law Library, Assistant Professor - B.S., John Carroll University, 1997; J.D., Kent State University, 2001; M.L.I.S., 2005.


Weaver, Roberta (1969), Teacher Education, Associate Professor - B.S., Ohio State University, 1960; M.S.Ed., University of Cincinnati, 1966; Ed.D., 1982.


Wilkins, Robert J. (1999), Chemical and Materials Engineering, Associate Professor - B.C.M.E., University of Dayton, 1992; M.S. 1993; Ph.D., Ohio University, 1997.


Williams, P. Kelly (1973), Biology, Professor - B.A., University of Texas, 1966; M.S., University of Minnesota, 1969; Ph.D., Indiana University, 1973.

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Wright, David J. (1996), Biology, Associate Professor - B.S., University of Sheffield, England; Ph.D., University of Iowa, 1989.

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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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Yao, Zhongmei (2009), Computer Science, Assistant Professor - B.E., Donghua University, 1997; M.S., Louisiana Tech University, 2004.

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


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Fry, Tracy A. (2004), Senior Research Engineer - B.S., University of Illinois at Urbana-Champaign, 1984; M.S., 1986; M.S., Xavier University, 1993.


Ganguli, Sabyasachi (2008), Research Engineer - B.S., Jadavpur University, 1990; M.B.A., Calcutta University, 1998; M.S., Tuskegee University, 2000; M.S., 2002; Ph.D., 2005.


Gillen, Robert J. (2008), Electrical Engineer - B.S., Wright State University, 2001; M.S., 2005.


Glencur, Thomas (2005), Process Engineer - B.S., University of California, 1979; M.S., University of Cincinnati, 1985.


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Han, Ken (2005), Senior Composites Engineer - B.S., Beijing University of Chemical Technology, 1975; M.S., 1982; M.S., Ohio State University, 1991; Ph.D., 1994.

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Hill, Susan I. (1995), Senior Research Engineer - B.S., University of Dayton, 1979; M.S., Case Western Reserve University, 1982.

Hoeffel, James D. (2003), Senior Research Engineer - B.S., University of Dayton, 1959; M.S., Ohio State University, 1965.


Holtzhaus, Dennis F. (1979), Group Leader-Associate Safety Coordinator/Facilities Coordinator.


Hurwitz, Myles M. (2005), Distinguished Research Scientist - B.S., Boston University, 1966; M.S., University of Maryland, 1971.


Johnson, David A. (2005), Senior Research Engineer - B.S., Baylor University, 1994; B.S., University of Dayton, 1989; M.S., 1993; M.S., Harvard University, 1997; Ph.D., 2004.
Johnson, Derek (2007), Associate Composites Engineer - B.S., University of Dayton, 2006.


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Klawon, Kevin T. (2008), Associate Image Processing Engineer.

Klingfors, Christopher D. (2006), Associate Research Engineer - B.S., Wright State University, 2001; M.S., 2004.


Kramer, Daniel P. (2004), Division Head-Metals and Ceramics - B.S., Rutgers University, 1974; M.S., Massachusetts Institute of Technology, 1978; M.S., Rutgers University, 1979; Ph.D., 1979.


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Lawson, Jacob W. (2004), Associate Research Engineer - B.S., Wright State University, 2002.

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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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Sondergelt, Kathleen M. (2009), Associate Mechanical Engineer - B.S., Ohio Northern University, 2008.

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Thomas, Ronald L. (1999), Internet/Programmer Analyst.


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Vukelich, Sharon I. (2003), Group Leader-Distinguished Research Engineer - B.S., Michigan State University, 1974; M.S., University of Cincinnati, 1980.


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Wang, Fei (2007), Associate Image Processing Engineer - B.S., Shandong University of Technology, 1989; M.S., Beijing University of Aeronautics and Astronautics, 1994; M.S., Wright State University, 2006; Ph.D., 2006.

Wang, Huabin (2003), Research Scientist - B.S., Nankai University, 1990; M.S., Changchun Institute, 1993; Ph.D., University of Akron, 1999.


Williams, Theodore F. (1990), Group Leader-Senior Research Engineer - B.S., University of Dayton, 1982.


Yamada, Takahiro (1999), Senior Research Chemist - B.S., University of Osaka, 1985; M.S., 1987; M.S., University of New Haven, 1994; Ph.D., New Jersey Institute of Technology, 1999.

Yoon, Yuhchae (2006), Research Scientist - B.S., Yonsei University, 1996; M.S., 1998; M.S., Ohio State University, 2002; Ph.D., 2004.


Zhou, Eric Guangming (2005), Research Engineer - B.S., China Textile University, 1986; M.S., Kansas State University, 1999.
Academic Information

In this section, you can locate specifics on various academic areas, and the programs and courses they offer.

Use the menu to the right to explore by department/program, major/minor, or courses. These search options produce three common elements: a description, a list of majors and minors, and a list of courses. Each of these elements can be collapsed or expanded. The main elements can be expanded and collapsed by using the link directly to the right of the element title. Individual majors and minors and individual courses can be expanded and collapsed by using the + / - box to the left of the individual item title.

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

(ACC) Accounting (Collapse Description)

The mission of the Department of Accounting is to prepare our students for successful professional careers by providing high quality educational programs in accounting within an environment that connects learning, scholarship, leadership, and service creating distinctive graduates able to add value to employers, clients, and society.

An accounting major must earn credit in at least seven upper-level accounting courses. Six specific courses are required: ACC 303, 305, 306, 341, 401, and 420. One additional accounting course is typically required. All upper-division accounting courses require a minimum grade of "C" in all prerequisite accounting courses, 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, requirements for professional examinations (e.g., CPA), etc.

Students may complete a 150 semester hour program required to become a CPA in Ohio and numerous other states. The MBA program, with an optional concentration in accounting, is particularly useful in this regard. Our integrated B.S./M.B.A. program allows for the completion of both degrees, plus professional work experience, foreign exchange experience and a second major or minor, in five years. Consult the department chairperson or an advisor for more information.

Faculty

Ronnie J. Burrows, Chairperson
Professors Emeriti: Clark, Eley, Florit, Roehm, Rosenzweig
Maht Chair in Accounting: Donna Street
Professors: Castellano, Street
Associate Professors: Archambeault, Brady, Burrows, Geary, Greenlee, Larson
Lecturers: Carlson, Livesay, Rogero, Shankar, Shishoff, Webber

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Science with a major in Accounting (ACC)

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<td>BAI 103L¹</td>
<td>BUSINESS COMPUTING LABORATORY 1</td>
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<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING 1</td>
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<td>HST 103</td>
<td>THE WEST AND THE WORLD 3</td>
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<td>MTH 128⁴</td>
<td>FINITE MATHEMATICS 3</td>
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<td>Social Science elective⁶</td>
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**Sophomore-Year**

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<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
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<td>1</td>
</tr>
<tr>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>PHL or REL elective&lt;sup&gt;7&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical and Life Science elective&lt;sup&gt;5&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HST elective&lt;sup&gt;6&lt;/sup&gt;</td>
<td>3</td>
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</tbody>
</table>

**Junior-Year**

**First-Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 303</td>
<td>MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 305</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
<td>3</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second-Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 306</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 341</td>
<td>ACCOUNTING INFORMATION SYSTEMS I</td>
<td>3</td>
</tr>
<tr>
<td>FIN 301</td>
<td>INTRODUCTION TO FINANCIAL MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>- - - PHL 313 BUSINESS ETHICS (PHL 313) or REL CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
<td>3</td>
<td>3</td>
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</table>

**Senior-Year**

**First-Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 401</td>
<td>AUDITING PRINCIPLES</td>
<td>4</td>
</tr>
<tr>
<td>ACC 420</td>
<td>FEDERAL INCOME TAXATION</td>
<td>4</td>
</tr>
<tr>
<td>MGT 490</td>
<td>MANAGING THE ENTERPRISE</td>
<td>3</td>
</tr>
<tr>
<td>Arts Study elective&lt;sup&gt;7,8&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General elective&lt;sup&gt;7,8&lt;/sup&gt;</td>
<td>3</td>
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**Second-Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>ACC elective&lt;sup&gt;8,10&lt;/sup&gt;</td>
<td>3</td>
<td></td>
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<tr>
<td>ECO elective&lt;sup&gt;9&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Writing Requirement&lt;sup&gt;11&lt;/sup&gt;</td>
<td>3</td>
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</tr>
</tbody>
</table>

**Notes:**

1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MTH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK; in addition to completing ECO 203 and 204, and an economics elective.

A minimum of 54 sem. hrs. of all academic work must be at the 300-400 level. Students completing the combined BS/MBA program should likely schedule additional MBA courses. Consult with your accounting advisor.

May be waived, and replaced by general electives, for students electing to complete a combined B.S. with a major in accounting and an MBA. Consult an advisor or the chair of the department for details.

Select any 300 or 400 level economics course.

Accounting majors completing a second major in the SBA can often substitute or waive one or more courses. Consult an advisor for further information.

Students starting Fall 2005: Select from ENG 370, ENG 371, or ENG 372. Students enrolled before Fall 2005: Select from ENG 370, ENG 371, ENG 372, CMM 321, CMM 322, CMM 344, CMM 351, or CMM 420.

Minor in Accounting (ACC)

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 207 INTRODUCTION TO FINANCIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 208 INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 305 INTERMEDIATE FINANCIAL ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 306 INTERMEDIATE FINANCIAL ACCOUNTING II</td>
<td>3</td>
</tr>
<tr>
<td>ACC electives</td>
<td>6-8</td>
</tr>
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</table>

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 200</td>
<td>INTRODUCTION TO ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
<td>3</td>
</tr>
<tr>
<td>ACC 300A</td>
<td>PRINCIPLES OF FINANCIAL ACCOUNTING</td>
<td>2</td>
</tr>
<tr>
<td>ACC 300B</td>
<td>PRINCIPLES OF MANAGERIAL ACCOUNTING</td>
<td>2</td>
</tr>
</tbody>
</table>

1 In consultation with the chairperson.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 303</td>
<td>MANAGERIAL ACCOUNTING</td>
<td>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.</td>
<td>ACC 207, 208, with minimum grades of &quot;C+&quot;; Junior standing or permission of department chairperson.</td>
</tr>
<tr>
<td>ACC 305</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING I</td>
<td>Part I (part II in ACC 306) of a comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements.</td>
<td>ACC 207, 208, with minimum grades of &quot;C+&quot;; Junior standing or permission of department chairperson.</td>
</tr>
<tr>
<td>ACC 306</td>
<td>INTERMEDIATE FINANCIAL ACCOUNTING II</td>
<td>Part II of comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements.</td>
<td>ACC 305.</td>
</tr>
<tr>
<td>ACC 341</td>
<td>ACCOUNTING INFORMATION SYSTEMS I</td>
<td>Study of designs of accounting systems, including their impact on management decision making and control. Emphasis on (1) a systems approach to the flow of data, (2) system internal control, and (3) computer applications in accounting.</td>
<td>ACC 305; (MIS 301 or permission of department chairperson).</td>
</tr>
<tr>
<td>ACC 401</td>
<td>AUDITING PRINCIPLES</td>
<td>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.</td>
<td>ACC 306, 341 (may be taken as a corequisite with permission of department chairperson).</td>
</tr>
<tr>
<td>ACC 402</td>
<td>ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATIONS</td>
<td>Study of the principles, techniques, and procedures related to financial reporting of governmental units and other not-for-profit entities.</td>
<td>ACC 306.</td>
</tr>
<tr>
<td>ACC 404</td>
<td>ADVANCED STRATEGIC COST MANAGEMENT</td>
<td>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.</td>
<td>ACC 303; OPS 301 or permission of department chairperson.</td>
</tr>
<tr>
<td>ACC 408</td>
<td>ADVANCED FINANCIAL ACCOUNTING</td>
<td>Study of accounting business combinations, consolidated financial statements, government organizations, multinational subsidiaries, and foreign currency transactions, including an introduction to IFRS.</td>
<td>ACC 305.</td>
</tr>
<tr>
<td>ACC 412</td>
<td>INTERNATIONAL ACCOUNTING</td>
<td>Introduction to issues of international business as they relate to accounting; accounting practices in selected countries, and activities of the International Accounting Standards Board.</td>
<td>ACC 305 or permission of department chairperson.</td>
</tr>
<tr>
<td>ACC 420</td>
<td>FEDERAL INCOME TAXATION</td>
<td>Study of federal income tax laws and their application to individuals, partnerships, and corporations. The historical, social, economic, and political influence on taxation laws are emphasized. Consideration is given to legal, moral, business, and personal factors involved in taxation.</td>
<td></td>
</tr>
</tbody>
</table>
Prerequisite(s): ACC 305 or ACC 208 with permission of department chairperson.

ACC 421 TAXES AND BUSINESS STRATEGY
Primary emphasis is given to developing a framework that articulates how effective tax planning affects business decisions. An advantage of the framework over a strictly rules-based course is that it can be applied to current and future tax regimes, as well as across tax jurisdictions. Significant emphasis is given to understanding how to account for income taxes for financial statement purposes. Although not a rule-based course per se, application of the effective tax planning framework to cases and problem-solving exercises will increase students' knowledge of U.S. tax rules and the factors that shape them.
Prerequisite(s): ACC 305, 420.

ACC 430 LAW FOR THE ACCOUNTING PROFESSION
Study of major laws affecting the public and private practice of accounting; contracts, property, commercial code, bankruptcy, business organizations, legal responsibility, and government regulations. Credit does not apply to requirements for ACC major.
Prerequisite(s): ACC 305; MGT 201; permission of department chairperson.

ACC 441 ACCOUNTING INFORMATION SYSTEMS II
Examination of accounting systems with exposure to systems design and evaluation, complex spreadsheet applications, decision support systems, and database management applications.
Prerequisite(s): ACC 341 or permission of instructor.

ACC 491 HONORS THESIS
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of program director and chairperson.

ACC 492 HONORS THESIS
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of program director and chairperson.

ACC 497 PROFESSIONAL WORK EXPERIENCE
Supervised accounting work experience in association with a participating public accounting, industrial, commercial, educational, health-care, or governmental organization. May be used for general elective credit only. Option two grading only. Maximum of three credits toward graduation requirements. Permission of chairperson required.

ACC 499 INDEPENDENT STUDY IN ACCOUNTING
Directed readings, independent study, and research projects in selected fields of accounting. Periodic conferences with instructor.
Prerequisite(s): Senior status in accounting; permission of department chairperson and instructor.
College of Arts and Sciences (AES) Air Force Aerospace Studies, ROTC

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. 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 (website: www.wright.edu/academics/program/rotc/home.html), or the University of Dayton Admissions Office at 1-937-229-1000 or e-mail: info@udayton.edu.

Courses

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES 120</td>
<td>General Military Course (GMC), Leadership Laboratory</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Applied Air Force Reserve Officer Training Corps (AFROTC) training.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This lab provides an opportunity for students to apply Air Force</td>
<td></td>
</tr>
<tr>
<td></td>
<td>procedures, techniques, and knowledge. Students will learn the Air</td>
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<tr>
<td></td>
<td>Force organizational structure as well as customs and courtesies.</td>
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</tr>
<tr>
<td></td>
<td>GMC cadets will also develop their followership and teamwork skills</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in a cadre led, cadre supervised Lab environment. Requires</td>
<td></td>
</tr>
<tr>
<td></td>
<td>participation in two weekly physical training sessions. Taken</td>
<td></td>
</tr>
<tr>
<td></td>
<td>concurrently with 100-level AES courses. (Pass/Fail)</td>
<td></td>
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</tbody>
</table>

AES 121 | Aerospace Studies: Foundations of the United States Air Force | 1         |
A survey course designed to introduce students to the United States Air Force and the Air Force Reserve Officer Training Corps (AFROTC). Featured topics include the mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer career opportunities, group leadership problems, and an introduction to communication skills.

Corequisite(s): AES 120.

AES 122 Aerospace Studies: Foundations of the United States Air Force II
A survey course designed to introduce students to the United States Air Force and the Air Force Reserve Officer Training Corps (AFROTC). Featured topics include the mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer career opportunities, group leadership problems, and an introduction to communication skills.

Corequisite(s): AES 120.

AES 220 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 Aerospace Studies: Evolution of United States Air Force, Air and Space Power I
A survey course designed to provide students with an overview of the general aspects of air and space power through a historical perspective. It begins with the first military application of balloons through the actions in Afghanistan and Iraq. It also shapes communication skills introduced in the freshman year.

Corequisite(s): AES 220.

AES 222 Aerospace Studies: Evolution of United States Air Force, Air and Space Power II
A survey course designed to provide students with an overview of the general aspects of air and space power through a historical perspective. It begins with the first military application of balloons through the actions in Afghanistan and Iraq. It also shapes communication skills introduced in the freshman year.

Corequisite(s): AES 220.

AES 330 Intermediate Cadet Leadership (ICL) Laboratory: Applied Air Force ROTC Training
The ICL lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the General Military Course cadets. Requires participation in two weekly physical training sessions. Taken concurrently with 300-level AES courses. (Pass/Fail)

AES 331 Aerospace Studies: Air Force Leadership Studies I
This course is a study of quality leadership and management fundamentals, professional military knowledge, Air Force doctrine, leadership ethics, and communication skills. Students use case studies to examine Air Force leadership and management situations.

Prerequisite(s): AES 330.

AES 332 Aerospace Studies: Air Force Leadership Studies II
This course is a study of quality leadership and management fundamentals, professional military knowledge, Air Force doctrine, leadership ethics, and communication skills. Students use case studies to examine Air Force leadership and management situations.

Corequisite(s): AES 330.
AES 430  Senior Cadet Leadership (SCL) Laboratory: Applied Air Force ROTC Training

This lab prepares students for progression into active duty life. As in the Intermediate Cadet Leadership Lab, students take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals learned in previous courses and labs to a level commensurate to entry into the active duty Air Force. Requires participation in two weekly physical training sessions. Taken concurrently with 400-level AES courses. (Pass/Fail)

AES 431  Aerospace Studies: National Security Affairs and Preparation for Active Duty I

This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Topics focus on the military as a profession, officership, military justice, civilian control of the military, and current issues. Considered the capstone ROTC course with continued refinement of communication skills. 

Corequisite(s): AES 430.

AES 432  Aerospace Studies: National Security Affairs and Preparation for Active Duty II

This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Topics focus on the military as a profession, officership, military justice, civilian control of the military, and current issues. Considered the capstone ROTC course with continued refinement of communication skills.

Corequisite(s): AES 430.
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

Una M. Cadegan (History), Director
Moore (Religious Studies),
Ruggiero (Economics), Street (Music)

Majors/Minors

Major/Minor Name

Bachelor of Arts with a major in American Studies (AMS)

Sem. Hrs.

American Studies 48
AMS 300, 301, 400 9
First area courses
Select courses from group A or B or C 15
Select supporting courses in the elected disciplines 9
Second area courses
Select from one of the two remaining groups 9
Third area courses
Select from the remaining group 6

Groups

Group A

ENG 305, 317, 319, 320, 325, 327, 329, 331, 332, 335,
337, 339, 380, 383, 451, 453, 455, 468, 490
MUS 304, 305, 306, 307, 327, 328, 404
VAH 370, 480, 482, 483, 490
Group B

HST 342, 344, 346, 347, 351, 352, 355, 360, 361, 365, 369,
370, 372, 373, 374, 375, 376, 377, 378, 380, 385, 391,
398, 399, 490, 495, 499
PHL 307, 310, 311, 314, 317, 318, 320, 323, 331, 332, 340,
361
REL 326, 327, 328, 364, 367, 372, 373, 375, 376, 485
Group C

ANT 315, 335, 449
ECO 310, 346, 347, 390, 441, 442, 445, 460, 461, 471, 485
POL 301, 303, 310, 311, 313, 314, 316, 335, 350, 360, 408,
411, 413, 450
PSY 334, 341, 351, 361, 363, 443, 461, 462, 471
SOC 321, 328, 337, 339, 341, 343, 351, 352, 435
Liberal Studies Curriculum

Humanities and Fine Arts
  Philosophy and Religious Studies 12
  History 6
  Literature: English or Foreign Language 3
  Creative and Performing Arts 3
  Foreign Language and/or Additional Arts and/or Humanities (may include courses from group A & B) 3-9

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

^This course can be counted only when the material is appropriate to American Studies. Consult program director.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 300</td>
<td>AMERICAN CULTURES</td>
<td>3</td>
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<tr>
<td>AMS 301</td>
<td>INTERPRETATIONS OF AMERICAN CULTURE</td>
<td>3</td>
</tr>
<tr>
<td>AMS 400</td>
<td>INTERDISCIPLINARY RESEARCH</td>
<td>3</td>
</tr>
<tr>
<td>AMS 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td>AMS 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
</tbody>
</table>

AMS 300 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 INTERPRETATIONS OF AMERICAN CULTURE
Critical study of various interpretations of American culture through more than a hundred years

AMS 400 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 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 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.
College of Arts and Sciences

(BIO) Biology (Collapse Description)

The Bachelor of Science program in biology is designed to prepare a student for a career in the life sciences. Graduates of the program are competitive for entry into graduate programs in biology as well as professional schools, such as medical, dental, osteopathic, and veterinary science.

The department has two primary areas of focus: environmental/ecological science and basic biomedical science. The former includes ecology, population biology, ecological physiology, environmental microbiology, community and restoration ecology, entomology and analysis of biological data, evolutionary biology, and plant physiology, as well as environmental biology in the narrow sense. The biomedical science course offerings include molecular biology, cell biology, general and medical microbiology, immunology, genetics, mammalian physiology, and developmental biology. In addition, advanced undergraduates may enroll in graduate courses for undergraduate credit with the consent of the chairperson.

In line with the two areas of research interests, the department encourages students (in consultation with their advisors) to declare one of the two as an area of concentration of study no later than the end of their sophomore year. For the student more interested in a broad approach to biology, the department recommends a third option, the general biology option (any combination of upper-level biology courses that fulfills the program requirements).

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, Laufersweiler, Ramsey
Professors: Burkoy, Kaarns, Robinson, Rowe, Tsonis, P. Williams
Associate Professors: Friese, Krane, Nielsen, D. Wright, S. Wright
Assistant Professors: Benbow, Hansen, Hong, Kanga-Singh, McEwan, Singh, T. Williams
Adjunct Faculty: Del Rio-Tsonis, Hussain, Joseph, Schlager
Lecturers: Dillon, Kavanaugh, Klco

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science with a major in Biology (BIO)
**Biology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151, 151L, 152, 152L, 298, 310, 312, 420</td>
<td>16</td>
</tr>
<tr>
<td><strong>Environmental/Ecological (select two)</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Basic Biomedical (select two)</strong></td>
<td>7</td>
</tr>
<tr>
<td>CHM 420</td>
<td></td>
</tr>
<tr>
<td>Electives: Four courses, two with accompanying laboratories, from the above groups.</td>
<td>14</td>
</tr>
</tbody>
</table>

**Breadth Requirement**

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences</td>
<td>24</td>
</tr>
<tr>
<td>CHM 123-123L, 124-124L, 313-313L, 314-314L</td>
<td></td>
</tr>
<tr>
<td>PHY 201-201L, 202-202L</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>MTH 148-149</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>General electives</td>
<td>8-9</td>
</tr>
</tbody>
</table>

**Communication Competencies**

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
</tr>
</tbody>
</table>

**General Education courses/academic electives to total at least**

<table>
<thead>
<tr>
<th>Category</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Biology (EVB)</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science with a major in Environmental Biology (EVB)</td>
<td></td>
</tr>
</tbody>
</table>

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 151, 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, 341 or 342 are highly recommended.
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

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>46</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO</td>
<td>151-151L, 152-152L, 299, 310-310L, 312, 420, 459, 479L, 499</td>
</tr>
</tbody>
</table>

Field Oriented Courses (select three)¹

| 11 |

Laboratory Oriented Courses (select three)³

| 10 |

Breadth Requirement

| 32 |
| Natural Sciences |
| CHM 123-123L, 124-124L, 313-313L, 314-314L |
| GEO 115-115L, 116-116L |
| PHY 201-201L, 202-202L |

| 9 |
| Mathematics, Computer Science |
| MTH (148-149 or 168-169⁴), 36⁵ |

| 6 |
| Social and Behavioral Sciences |
| (ANT 150 or PSY 101) |
| And elective |

| 9 |
| Humanities |
| Philosophy and Religious Studies |

| 12 |
| Communication Competencies⁶ |

| 0-9 |
| Elective |

| 0-3 |
| Other non-science elective |

| 0-1 |
| Introduction to the University: ASI 150 |

| 120-127 |
| General Education courses/academic electives to total at least |

¹At least two courses with accompanying laboratory. One non-BIO science course approved for science majors may be included in this section with permission. BIO 499 requires the permission of the EVB Program Director.

²Qualifies only as a laboratory elective; satisfies either BIO laboratory elective area.

³At least one course with accompanying laboratory. One non-BIO science course approved for science majors may be included in this section with permission. BIO 499 requires the permission of the EVB Program Director.

⁴MTH 180 - MTH 169 by placement.

⁵Other appropriate statistics courses may be substituted with the approval of the Department Chairperson.

⁶If composition requirement is waived, student should select another elective from the Liberal Studies Curriculum. ENG 378 strongly recommended for students whose background is weak in this area.

Minor in Biology (BIO)

| 20 |
| Biology |

| 14 |
| BIO 151-151L, 152-152L, 310, 312 |
Select six additional semester hours (300- or 400-level)  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>GENERAL BIOLOGY I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A study of the more important biological processes and principles through analysis and synthesis, dealing primarily with the organizational aspects of living things. For the nonscience major.</td>
<td></td>
</tr>
<tr>
<td>BIO 101L</td>
<td>GENERAL BIOLOGY LABORATORY I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Examination of biological concepts using basic biological techniques and stressing an investigational and experimental approach. One two-hour laboratory per week. <strong>Corequisite(s):</strong> BIO 101.</td>
<td></td>
</tr>
<tr>
<td>BIO 151</td>
<td>CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the molecular and cellular organization of organisms. Topics also include development and genetics. Core biology course.</td>
<td></td>
</tr>
<tr>
<td>BIO 151L</td>
<td>CONCEPTS OF BIOLOGY LABORATORY I: CELL AND MOLECULAR BIOLOGY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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. <strong>Corequisite(s):</strong> BIO 151.</td>
<td></td>
</tr>
<tr>
<td>BIO 152</td>
<td>CONCEPTS OF BIOLOGY II: EVOLUTION AND ECOCOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of evolution and ecology. Topics include phylogeny, systematics, and conservation. Core biology course. BIO 151 recommended.</td>
<td></td>
</tr>
<tr>
<td>BIO 152L</td>
<td>CONCEPTS OF BIOLOGY LABORATORY II: EVOLUTION AND ECOCOLOGY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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. <strong>Corequisite(s):</strong> BIO 152.</td>
<td></td>
</tr>
<tr>
<td>BIO 299</td>
<td>BIOLOGY SEMINAR</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> BIO 152.</td>
<td></td>
</tr>
<tr>
<td>BIO 301</td>
<td>EVOLUTION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Theory and evidence of organic evolution, with emphasis on microevolutionary change and population genetics. <strong>Prerequisite(s):</strong> BIO 152.</td>
<td></td>
</tr>
<tr>
<td>BIO 309</td>
<td>COMPARATIVE ANATOMY OF THE VERTEBRATES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of changes that have occurred in the vertebrate body with the passage of time, and analysis of their significance. <strong>Prerequisite(s):</strong> BIO 152.</td>
<td></td>
</tr>
<tr>
<td>BIO 309L</td>
<td>COMPARATIVE ANATOMY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Dissection and study of the anatomical structure of representative vertebrate animals. One three-hour laboratory per week. <strong>Corequisite(s):</strong> BIO 309.</td>
<td></td>
</tr>
<tr>
<td>BIO 310</td>
<td>ECOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> BIO 152.</td>
<td></td>
</tr>
</tbody>
</table>
BIO 310L 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 INTRODUCTORY ENTOMOLOGY
Classification, physiology, ecology, and impact of insects on society.
**Prerequisite(s):** BIO 152.

BIO 312 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 LABORATORY
Exploration of heredity using molecular genetic methods. One three-hour laboratory per week.
**Corequisite(s):** BIO 312.

BIO 314 PLANT BIOLOGY
Consideration of structure, function, reproduction, and inheritance as applicable in the plant patterns of life. Emphasis on the vascular plants.
**Prerequisite(s):** BIO 152

BIO 314L 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
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 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
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 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 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 CULTURE, BIODIVERSITY, AND RESOURCES MANAGEMENT LAB
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 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 MICROBIOLOGY LABORATORY**

1 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 SUSTAINABILITY AND THE BIOSPHERE**

3 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 ENVIRONMENTAL BIOLOGY**

3 Field lecture course on environments of Pacific Islands. Study of volcanic geology, island morphology/weather-patterns, native culture, economic development, freshwater-marine continuum and water resource utilization on unique biological habitats.

**Prerequisite(s):** Permission of instructor.

**Corequisite(s):** BIO 360L.

**BIO 360L ISLAND ENVIRONMENTAL BIOLOGY LAB**

1 - 2 Lab field course on Pacific Islands. Ecology of elevational and rainforest-desert gradients, volcanic mountain streams, watersheds, and coral systems with experimental design, data collection and analysis.

**Prerequisite(s):** Permission of instructor.

**Corequisite(s):** BIO 360.

**BIO 370 CONSERVATION BIOLOGY**

3 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 ENVIRONMENTAL BIOLOGY**

3 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 The morphology, physiology, ecology, and distribution of representative vertebrate groups.

**Prerequisite(s):** BIO 310 or 312.

**BIO 402L VERTEBRATE ZOOLOGY LABORATORY**

1 A laboratory focused on the diversity, systematics and ecology of vertebrates. One three-hour laboratory per week.

**Corequisite(s):** BIO 402.
BIO 403 PHYSIOLOGY I
A 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 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
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 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 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 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 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
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 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 415 NEUROBIOLOGY
Structure and function of the brain and nervous system. Emphasis on understanding cellular and molecular events within the nervous system using model organisms.
Prerequisite(s): BIO 152; CHM 124.

BIO 420 SEMINAR
Practice in development, presentation, and discussion of papers dealing with biological research problems, and career development. Core biology course.
Prerequisite(s): BIO 299, 310, 312.

BIO 421 BIOLOGICAL PROBLEMS
1 - 2
Laboratory research problems. Topics arranged with faculty advisors.

**Prerequisite(s):** (BIO 310 or 312); Permission of department chairperson.

**BIO 422**  
**BIOLICAL PROBLEMS**  
Library research problems. Topics arranged with faculty advisors.

**Prerequisite(s):** (BIO 310 or 312); Permission of department chairperson.

**BIO 425**  
**PARASITOLOGY**  
Introduction to the morphology, life history, and clinical significance of parasites and other symbionts.

**Prerequisite(s):** BIO 310 or 312.

**BIO 425L**  
**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**  
Discussions of antigens, antibodies, antigenicity, immunogenicity, and antigen-antibody reactions including hypersensitivity, immune tolerance, and transplants.

**Prerequisite(s):** (BIO 403 or 411 or 440 or 442) or CHM 420.

**BIO 435**  
**MICROBIAL ECOLOGY**  
Study of the diversity and activity of microorganisms and the interrelationships between microorganisms and their environments with emphasis on aquatic ecosystems.

**Prerequisite(s):** BIO 411; CHM 314.

**BIO 435L**  
**MICROBIAL ECOLOGY LABORATORY**  
Examination of the methods of isolation and enumeration of microorganisms and techniques for determining their activities in the field and laboratory. One three-hour laboratory per week.

**Corequisite(s):** BIO 435.

**BIO 439**  
**ANALYSIS AND INTERPRETATION OF BIOLOGICAL DATA**  
Introducing the nature of some of the important types of data that are generated in biological research, the databases that warehouse such data, the principles involved in the analysis of such data, the use of appropriate software to analyze such data, and the biological interpretation of the results of analysis.

**Prerequisite(s):** BIO 152.

**BIO 440**  
**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 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**  
**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 312.

**BIO 442**  
**DEVELOPMENTAL BIOLOGY**  
Study of animal development, including morphological patterns of development, mechanisms of cellular differentiation, cell-cell interactions during development, and mechanisms of differential gene expression. Emphasis on understanding development at the cellular and molecular levels.

**Prerequisite(s):** BIO 152; CHM 314.
BIO 442L 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
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 442.

BIO 444L 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 AND DEVELOPMENT
A 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 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 312); CHM 124.

BIO 450L 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 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 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 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 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 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**
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 312.

**BIO 461L**  
**INVERTEBRATE ZOOLOGICAL 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**
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 310; CHM 314.

**BIO 465**  
**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, 411) or permission of department chairperson or instructor.

**BIO 466**  
** BIOLOGY OF INFECTIOUS DISEASE**
The nature of infectious diseases, host-parasite relationships in resistance and infection, defense mechanism (antigen-antibody response); survey of the bacteria causing disease in humans.  
**Prerequisite(s):** BIO 411.

**BIO 470**  
**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 440.

**BIO 475**  
**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 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 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 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  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  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  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
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 499  ENVIRONMENTAL BIOLOGY INTERNSHIP
Majors will have the opportunity to obtain valuable training and experience under the mentorship of established scientists and professionals. Emphasis on approaches to solving environmental problems including such research areas as bioremediation, risk assessment, and ecological restoration. May be repeated up to six semester hours. No science credit for biology majors.
Prerequisite(s): Permission of Environmental Biology Program Coordinator.
## School of Business Administration (BAI) Business Interdisciplinary Studies

### Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAI 103L</td>
<td>BUSINESS COMPUTING LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Introduction to business software skills including Microsoft Excel, FrontPage and PowerPoint. Overview of UD computer ethics policies.</td>
<td></td>
</tr>
<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Introduction to the School of Business Administration, the University, and educational planning.</td>
<td></td>
</tr>
<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Integrated introduction to major business processes and decision making.</td>
<td></td>
</tr>
<tr>
<td>BAI 199</td>
<td>BUSINESS SCHOLARS FORUM I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Exploration and discussion of a wide range of business topics. Weekly sessions led by faculty members and guest professionals in their areas of expertise. Open only to first-year Business Scholars or with permission of the Dean's office.</td>
<td></td>
</tr>
<tr>
<td>BAI 201</td>
<td>BUSINESS SCHOLARS FORUM II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Similar to BAI 199 with topics geared toward sophomore Business Scholars. Open only to sophomore Business Scholars or with permission of the Dean's office.</td>
<td></td>
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<tr>
<td>BAI 400</td>
<td>DEANS LEADERSHIP LABORATORY</td>
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<tr>
<td></td>
<td>Upper-class student participation in first-year student advising program. Permission of dean's office required.</td>
<td></td>
</tr>
<tr>
<td>BAI 497</td>
<td>LABORATORY WORK EXPERIENCE</td>
<td>3 - 6</td>
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<tr>
<td></td>
<td>Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, or governmental organization; practical experience in work associated with the student's major or minor concentration. (See internship coordinator for details.) Does not count toward major. Permission of dean is required.</td>
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</table>
School of Engineering

Chemical and Materials Engineering (Collapse Description)

Chemical engineering applies the principles of the physical sciences, economics, and human relations to research, design, build, and supervise facilities that convert raw materials into useful products and services.

The majority of chemical engineers are involved in the chemical process industries that produce many of the materials and items needed in everyday life. These include medicine, food, fertilizers, plastics, synthetic fibers, petroleum, petrochemicals, ceramics, and pulp and paper products. A chemical engineer may pursue a professional career in many other fields, such as energy conversion, pollution control, medical research, and materials development in aerospace and electronic industries. Chemical engineers are employed in research, development, design, production, sales, consulting, and management positions. They are also found in government and education. Many use a chemical engineering education as a stepping stone to law, medicine, or corporate management.

The curriculum in chemical engineering serves as basic training for positions in these diverse areas of the manufacturing industry or 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 are to produce graduates who:

- have successful careers in the chemical process industry with the skills necessary to pursue opportunities to work in multidisciplinary and non-traditional industries and positions.
- are successful at prestigious graduate, medical, and law schools.
- are committed to performing ethically while serving their professions, companies, and communities.
- from the depth of their foundations in engineering principles and the breadth of their general educations, exhibit strong critical thinking, technical, and professional skills; and engage in continuous intellectual and personal growth.

Faculty

Tony E. Saliba, Chairperson
Professors Emeriti: Lu, Snide
Professors: Browning, Dai, Eyton, Flach, Lee, Myers, T. Saliba, Sandhu
Associate Professor: Wilkens
Assistant Professor: Comfort
Lecturer: Ellass

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Chemical Engineering (CME)
### First-Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CHM 123-123L</td>
<td>GENERAL CHEMISTRY (CHM 123)</td>
<td>4</td>
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<td>GENERAL CHEMISTRY LABORATORY</td>
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<tr>
<td>CHM 124-124L</td>
<td>GENERAL CHEMISTRY (CHM 124)</td>
<td>4</td>
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<td></td>
<td>GENERAL CHEMISTRY LABORATORY</td>
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<tr>
<td>CME 101</td>
<td>INTRODUCTION TO CHEMICAL ENGINEERING</td>
<td>0 - 1</td>
</tr>
<tr>
<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
<td>0 - 3</td>
</tr>
<tr>
<td>EGR 103</td>
<td>ENGINEERING INNOVATION</td>
<td>2</td>
</tr>
<tr>
<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101) or COLLEGE COMPOSITION II (ENG 102)</td>
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<tr>
<td></td>
<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
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<tr>
<td></td>
<td>ENGLISH SCHOLARS’ SEMINAR (ENG 198)</td>
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<tr>
<td>HST 103 or 198</td>
<td>THE WEST AND THE WORLD (HST 103) or HISTORY SCHOLARS’ SEMINAR (HST 198)</td>
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<tr>
<td>MTH 168</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
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<tr>
<td>MTH 169</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
<td>4</td>
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<tr>
<td>PHY 206</td>
<td>GENERAL PHYSICS I - MECHANICS</td>
<td>3</td>
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<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
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<tr>
<td></td>
<td>Fundamentals of Communication</td>
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### Sophomore-Year

#### First-Term

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<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CHM 313-313L</td>
<td>ORGANIC CHEMISTRY (CHM 313)</td>
<td>4</td>
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<tr>
<td></td>
<td>ORGANIC CHEMISTRY LABORATORY</td>
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<tr>
<td>CME 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
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<tr>
<td>CME 203</td>
<td>MATERIAL AND ENERGY BALANCES</td>
<td>3</td>
</tr>
<tr>
<td>EGR 202</td>
<td>ENGINEERING THERMODYNAMICS</td>
<td>3</td>
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<tr>
<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
<td>4</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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#### Second-Term

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<tbody>
<tr>
<td>CHM 314-314L</td>
<td>ORGANIC CHEMISTRY (CHM 314)</td>
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<tr>
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<td>ORGANIC CHEMISTRY LABORATORY</td>
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<tr>
<td>CME 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
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<td>CME 281</td>
<td>CHEMICAL ENGINEERING COMPUTATIONS</td>
<td>3</td>
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<tr>
<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
<td>3</td>
</tr>
<tr>
<td>PHY 207</td>
<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
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### Junior-Year

#### First-Term

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<tbody>
<tr>
<td>CME 311</td>
<td>CHEMICAL ENGINEERING THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>TRANSPORT PHENOMENA I</td>
<td>3</td>
</tr>
<tr>
<td>CME 381</td>
<td>ADVANCED MATHEMATICS FOR CHEMICAL ENGINEERS</td>
<td>3</td>
</tr>
<tr>
<td>EGR 201</td>
<td>ENGINEERING MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Communication</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
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</table>

#### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 306</td>
<td>CHEMICAL REACTION KINETICS AND ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CME 325</td>
<td>TRANSPORT PHENOMENA II</td>
<td>3</td>
</tr>
<tr>
<td>CME 326L</td>
<td>TRANSPORT PHENOMENA LABORATORY</td>
<td>2</td>
</tr>
<tr>
<td>CME 365</td>
<td>SEPARATION TECHNIQUES</td>
<td>3</td>
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<tr>
<td>EGR 203</td>
<td>ELECTRICAL AND ELECTRONIC CIRCUITS</td>
<td>3</td>
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<td></td>
<td>General Education elective</td>
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### Senior-Year

#### First-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CME 408</td>
<td>SEMINAR</td>
<td>0 - 1</td>
</tr>
<tr>
<td>CME 430</td>
<td>CHEMICAL ENGINEERING DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>CME 452</td>
<td>PROCESS CONTROL</td>
<td>3</td>
</tr>
<tr>
<td>CME 465</td>
<td>FLUID FLOW AND HEAT TRANSFER PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>CME 466L</td>
<td>CHEMICAL ENGINEERING UNIT OPERATIONS LABATORY</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry or Biology elective&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education elective</td>
<td>3</td>
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#### Second-Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 408</td>
<td>SEMINAR</td>
<td>0 - 1</td>
</tr>
<tr>
<td>CME 431</td>
<td>CHEMICAL ENGINEERING DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>CME 453L</td>
<td>PROCESS CONTROL LABORATORY</td>
<td>2</td>
</tr>
<tr>
<td>CME elective&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering/Science electives&lt;sup&gt;2,2&lt;/sup&gt;</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup>Must be selected from approved list of PHL or REL ethics courses.

<sup>2</sup>Must be selected from list approved by the Chemical and Materials Engineering Department.

### 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.

#### Energy Systems - Chemical

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 320</td>
<td>CITIES AND ENERGY&lt;sup&gt;1,2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>CME 203</td>
<td>MATERIAL AND ENERGY BALANCES</td>
<td>3</td>
</tr>
<tr>
<td>CME 311</td>
<td>CHEMICAL ENGINEERING THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>CME 324</td>
<td>TRANSPORT PHENOMENA I</td>
<td>3</td>
</tr>
<tr>
<td>CME 325</td>
<td>TRANSPORT PHENOMENA II</td>
<td>3</td>
</tr>
<tr>
<td>CME 326L</td>
<td>TRANSPORT PHENOMENA LAB</td>
<td>2</td>
</tr>
<tr>
<td>CME 430</td>
<td>CHEMICAL ENGINEERING DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>CME 431</td>
<td>CHEMICAL ENGINEERING DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>CME 465</td>
<td>FLUID FLOW AND HEAT TRANSFER PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>CME 466L</td>
<td>CHEMICAL ENGINEERING UNIT OPERATIONS LAB</td>
<td>2</td>
</tr>
<tr>
<td>CME elective - Select one course from:</td>
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</tr>
<tr>
<td>CME 486 or 586 PETROLEUM ENGINEERING</td>
<td>3</td>
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</tr>
<tr>
<td>CME 524 or MEE 575 ELECTROCHEMICAL POWER</td>
<td>3</td>
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<tr>
<td>CME 565 FUNDAMENTALS OF COMBUSTION</td>
<td>3</td>
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<tr>
<td>CME 574 FUNDAMENTALS OF AIR POLLUTION ENGR</td>
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<tr>
<td>Select two courses from:</td>
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<tr>
<td>Any CME elective course above&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3</td>
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<tr>
<td>AEE or MEE 560 PROPULSION SYSTEMS</td>
<td>3</td>
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<tr>
<td>CME 507 or MEE 511 ADVANCED THERMODYNAMICS</td>
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<tr>
<td>MEE 413 or 513 PROPULSION</td>
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<tr>
<td>MEE 420 or 569 ENERGY EFFICIENT BUILDINGS</td>
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<tr>
<td>MEE 471 or 571 DESIGN OF THERMAL SYSTEMS</td>
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<tr>
<td>MEE 473 or 573 RENEWABLE ENERGY SYSTEMS</td>
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</tr>
<tr>
<td>MEE 478 or 578 ENERGY EFFICIENT MANUFACTURING</td>
<td>3</td>
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</tbody>
</table>
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.

**Bioengineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BIO 151 or 152</td>
<td>CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY (BIO 151)</td>
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</tr>
<tr>
<td>BIO 151 or 152</td>
<td>CONCEPTS OF BIOLOGY II: EVOLUTION AND ECOLOGY (BIO 152)</td>
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<tr>
<td>CME 490</td>
<td>INTRODUCTION TO BIOENGINEERING</td>
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<tr>
<td>CME 491</td>
<td>BIOMEDICAL ENGINEERING</td>
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Select one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151</td>
<td>CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY</td>
<td>3</td>
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<tr>
<td>BIO 152</td>
<td>CONCEPTS OF BIOLOGY II: EVOLUTION AND ECOLOGY</td>
<td>3</td>
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<tr>
<td>BIO 312</td>
<td>GENERAL GENETICS</td>
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<tr>
<td>BIO 403</td>
<td>PHYSIOLOGY I</td>
<td>3</td>
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<tr>
<td>BIO 411</td>
<td>GENERAL MICROBIOLOGY</td>
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<tr>
<td>BIO 440</td>
<td>CELL BIOLOGY</td>
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<td>CHM 420</td>
<td>BIOCHEMISTRY</td>
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<tr>
<td>CHM 451</td>
<td>GENERAL BIOCHEMISTRY I</td>
<td>3</td>
</tr>
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<td>CHM 452</td>
<td>GENERAL BIOCHEMISTRY II</td>
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<tr>
<td>CME 492</td>
<td>CHEMICAL SENSORS AND BIOSENSORS</td>
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</table>

Minor in Chemical Processing (CHIP)

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.

**Chemical Processing**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CME 203</td>
<td>MATERIAL AND ENERGY BALANCES</td>
<td>3</td>
</tr>
<tr>
<td>CME 385</td>
<td>SEPARATION TECHNIQUES</td>
<td>3</td>
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Select one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CME 306</td>
<td>CHEMICAL REACTION KINETICS AND ENGINEERING</td>
<td>3</td>
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<tr>
<td>CME 430</td>
<td>CHEMICAL ENGINEERING DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>CME 452</td>
<td>PROCESS CONTROL</td>
<td>3</td>
</tr>
<tr>
<td>CME 465</td>
<td>FLUID FLOW AND HEAT TRANSFER PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>CME 499</td>
<td>SPECIAL PROBLEMS IN CHEMICAL ENGINEERING</td>
<td>1 - 6</td>
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</tbody>
</table>

Minor in Composite Materials Engineering (CMA)

This minor is open to civil, chemical, and mechanical engineering majors. The program is designed to expose the student to the design, processing, and characterization of composite materials and their various applications in industry.

**Composite Materials Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CEE or MAT 540</td>
<td>COMPOSITE DESIGN</td>
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<tr>
<td>CEE or MAT 541</td>
<td>EXPERIMENTAL MECHANICS OF COMPOSITE MATRICES</td>
<td>3</td>
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<tr>
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<td>Sem. Hrs.</td>
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<tr>
<td>CEE or MAT 543</td>
<td>ANALYTICAL MECHANICS OF COMPOSITE MATRILS</td>
<td>3</td>
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<tr>
<td>CEE or MAT 544</td>
<td>MECHANICS OF COMPOSITE STRUCTURES</td>
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<tr>
<td>CME or MAT 509</td>
<td>INTRODUCTION TO POLYMER SCIENCE- THERMOPLASTICS</td>
<td>3</td>
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<tr>
<td>CME or MAT 510</td>
<td>HIGH PERFORMANCE THERMOSET POLYMERS</td>
<td>3</td>
</tr>
<tr>
<td>CME 512 or MAT 542</td>
<td>ADVANCED COMPOSITES</td>
<td>3</td>
</tr>
<tr>
<td>CME or MAT 527</td>
<td>METHODS OF POLYMER ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>CME 528</td>
<td>CHEMICAL BEHAVIOR OF MATERIALS</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME or MAT 509</td>
<td>INTRODUCTION TO POLYMER SCIENCE- THERMOPLASTICS</td>
<td>3</td>
</tr>
<tr>
<td>CME or MAT 510</td>
<td>HIGH PERFORMANCE THERMOSET POLYMERS</td>
<td>3</td>
</tr>
<tr>
<td>CME or MAT 511</td>
<td>PRINCIPLES OF CORROSION</td>
<td>3</td>
</tr>
<tr>
<td>CME 512 or MAT 542</td>
<td>ADVANCED COMPOSITES-MATERIALS &amp; PROC</td>
<td>3</td>
</tr>
<tr>
<td>CME or MAT 527</td>
<td>METHODS OF POLYMER ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>CME 528</td>
<td>CHEMICAL BEHAVIOR OF MATERIALS</td>
<td>3</td>
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<tr>
<td>CME or MAT 579</td>
<td>MATERIALS FOR ADVANCED ENERGY APPLICATION</td>
<td>3</td>
</tr>
<tr>
<td>MAT 501</td>
<td>PRINCIPLES OF MATERIALS I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 502</td>
<td>PRINCIPLES OF MATERIALS II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 504</td>
<td>TECHNIQUES OF MATERIALS ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 507</td>
<td>INTRODUCTION TO CERAMIC MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 508</td>
<td>PRINCIPLES OF MATERIAL SELECTION</td>
<td>3</td>
</tr>
<tr>
<td>MAT 513</td>
<td>ADVANCED MAGNETIC MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 521</td>
<td>NONDESTRUCTIVE EVALUATION</td>
<td>3</td>
</tr>
<tr>
<td>MAT 530</td>
<td>INTRODUCTION TO ANALYTICAL ELECTRON MICROSCOPY</td>
<td>3</td>
</tr>
<tr>
<td>MAT 535</td>
<td>HIGH-TEMPERATURE MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 541</td>
<td>EXPERIMENTAL MECHANICS-COMPOSITE MATRILS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 543</td>
<td>ANALYTICAL MECHANICS-COMPOSITE MATRILS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 544</td>
<td>MECHANICS OF COMPOSITE STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>MAT 590</td>
<td>SELECTED READINGS IN MATERIALS</td>
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<tr>
<td>MAT 595</td>
<td>SPECIAL PROBLEMS IN MATERIALS</td>
<td>3</td>
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<tr>
<td>MAT 604</td>
<td>NANOSTRUCTURED MATERIALS</td>
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<tr>
<td>MEE 312</td>
<td>ENGINEERING MATERIALS I</td>
<td>3</td>
</tr>
<tr>
<td>MEE 505</td>
<td>THERMODYNAMICS OF SOLIDS</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

**Polymer Materials**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 509 or MAT 510</td>
<td>INTRO TO POLYMER SCIENCE- THERMOPLASTICS</td>
<td>3</td>
</tr>
<tr>
<td>CME 510</td>
<td>HIGH PERFORMANCE THERMOSET POLYMERS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 512 or MAT 542</td>
<td>ADVANCED COMPOSITES</td>
<td>3</td>
</tr>
<tr>
<td>CME 527</td>
<td>METHODS OF POLYMER ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>CME 528</td>
<td>CHEMICAL BEHAVIOR OF MATERIALS</td>
<td>3</td>
</tr>
<tr>
<td>MAT 540</td>
<td>COMPOSITE DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>MAT 541</td>
<td>EXPERMNTL MECHNCS OF COMPSTE</td>
<td>3</td>
</tr>
<tr>
<td>MAT 542</td>
<td>ANALYTCL MECHNCS OF COMPSTE</td>
<td>3</td>
</tr>
<tr>
<td>MAT 543</td>
<td>MECHANICS OF COMPOSITE STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>MAT 544</td>
<td><strong>Polymer Materials</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses (Collapse All Courses)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 101</td>
<td>INTRODUCTION TO CHEMICAL ENGINEERING</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

Introduction to the chemical engineering faculty, facilities, and curriculum; survey of career opportunities in chemical engineering. Introduction to the University first-year experience.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 203</td>
<td>MATERIAL AND ENERGY BALANCES</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 281</td>
<td>CHEMICAL ENGINEERING COMPUTATIONS</td>
<td>3</td>
</tr>
</tbody>
</table>

Development of computational skills and digital data acquisition with an emphasis on algorithm development and problem solving. Applications to problems typically encountered in chemical engineering.  
**Prerequisite(s):** CME 203.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 298</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
</tbody>
</table>

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 CHEMICAL REACTION KINETICS AND ENGINEERING
Chemical kinetics, ideal reactor analysis and design, and heterogeneous
catalysis. 
Prerequisite(s): CME 311.

CME 311 CHEMICAL ENGINEERING THERMODYNAMICS
Development of the fundamental principles of thermodynamics, particularly
with respect to chemical engineering processes. 
Prerequisite(s): CME 203; MTH 218.

CME 324 TRANSPORT PHENOMENA I
Viscosity, shell momentum balances, isothermal equations of change,
thermal conductivity, shell energy balances, non-isothermal equations of
change, diffusivity, concentration profiles. 
Prerequisite(s): CME 203, 281; MTH 219. 
Corequisite(s): CME 381.

CME 325 TRANSPORT PHENOMENA II
Multidimensional transport, dimensionless parameters, turbulence, and
numerical solution methods. 
Prerequisite(s): CME 324, 381.

CME 326L 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 SEPARATION TECHNIQUES
Equilibrium staged separations: distillation, extraction, absorption,
evaporation and drying with an emphasis on distillation. 
Prerequisite(s): CME 311, 324.

CME 381 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. 
Prerequisite(s): CME 281; MTH 219.

CME 398 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
Presentation of lectures on contemporary chemical engineering subjects by
students, faculty, and engineers in active practice. Registration required of
senior students only.

CME 409 INTRODUCTION TO POLYMER SCIENCE-THERMOPLASTICS
Introduction to the chemistry, structure, and properties of polymers; polymer
synthesis and processing. 
Prerequisite(s): CHM 314; CME 311.

CME 410 HIGH PERFORMANCE THERMOSET POLYMERS
Survey of high performance thermoset resins with focus on structural
applications. The survey will include types of thermosets, chemistry,
processing, properties, cost, suppliers, and applications. Characterization
techniques and typical properties will also be reviewed. The course will also
involve a fundamental discussion on cross-linked polymer structure-processing-property relationships, the glassy state, rubber elasticity, time-temperature superposition, and cure kinetics.

**Prerequisite(s):** (CME 409; general chemistry; organic chemistry; differential equations) or permission of instructor.

**CME 412** 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 430** CHEMICAL ENGINEERING DESIGN I
Study of the principles of process development, plant design, and economics.

**Prerequisite(s):** CME 203.

**CME 431** CHEMICAL ENGINEERING DESIGN II
Application of the principles of process development, plant design, and economics.

**Prerequisite(s):** CME 306, 365, 430, 465.

**CME 432** 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
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 LABORATORY
Project-oriented study of process dynamics and control using computer-based data acquisition and control systems.

**Prerequisite(s):** (CME 452, 466L) or permission of instructor.

**CME 465** FLUID FLOW AND HEAT TRANSFER PROCESSES
Fluid mechanics, transportation and metering of fluids, agitation and mixing, heat transfer and its applications.

**Prerequisite(s):** CME 311, 324.

**CME 466L** CHEMICAL ENGINEERING UNIT OPERATIONS LABORATORY
Study of the equipment and utilization of various chemical engineering processes.

**Prerequisite(s):** CME 365.

**Corequisite(s):** CME 465.

**CME 486** INTRODUCTION TO PETROLEUM ENGINEERING
Introduction to the fundamental concepts in petroleum engineering. Petroleum topics include overviews of areas such as petroleum geology, petroleum fluids and thermodynamics, drilling and completion, and production and multiphase flow. In addition this course will cover refinery operations.

**CME 490** INTRODUCTION TO BIOENGINEERING
Prerequisite(s): (CHM 420 or 451); CME 325, 365.
Corequisite(s): CME 306 or permission of instructor.

CME 491 BIOMEDICAL ENGINEERING
Introduction to the fundamental concepts in biomedical engineering with a special focus on chemical engineering applications. Biomedical topics include overviews of areas such as biomaterials, tissue engineering, biosensors and biomedical engineering technology.
Prerequisite(s): (BIO 151; (CHM 420 or 451); CME 324, 365) or permission of instructor.

CME 492 CHEMICAL SENSORS AND BIOSENSORS
Analysis performed with chemical sensors complement laboratory analyses and offer the potential for more rapid and on-line analyses in complex sample matrices. The demand for new chemical sensors, biosensors, and sensing concepts is rapidly increasing and associated with the growing need to understand and/or control complex chemical and biochemical processes or detect the presence of toxic chemical or biological agents.
Prerequisite(s): Permission of instructor.

CME 498 RESEARCH AND INNOVATION LABORATORY
1 - 6
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

CME 499 SPECIAL PROBLEMS IN CHEMICAL ENGINEERING
1 - 6
Particular assignments to be arranged and approved by chairperson of the department.
College of Arts and Sciences

(Chemistry) Chemistry (Collapse Description)

The B.A. program in chemistry provides a framework of scientific courses which serves as a preparation for a number of interdisciplinary professions. The traditional B.S. curriculum has been modified in the B.A. program, most notably in mathematics, physics, and advanced chemistry. The program is sufficiently flexible to afford a wide selection of courses in the humanities. Science courses may be chosen to provide a preparation for professions such as medicine, dentistry, optometry, veterinary medicine, biochemistry, education, and law, as well as for employment in many other areas which require a background in science.

The B.S. program in chemistry is approved by the American Chemical Society for the training of professional chemists. Students in the B.S. program in chemistry are required to conduct an original research project. Satisfaction of this requirement normally begins with enrollment in CHM 495 and selection of a research professor and project during the second term of the junior year. The research project, conducted during the entire senior year, normally requires two work periods of 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.

A minor in chemistry consists of twenty semester hours.

Faculty

Mark B. Masthay, Chairperson
Professors Emeriti: Knachel, Singer
Professors: Fratini, Kell, Morrow
Associate Professors: Benin, Church, Johnson, Masthay, Swavey
Assistant Professors: Crosson, Lopper
Lecturer: Trick

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Chemistry (CHA)

<table>
<thead>
<tr>
<th>Major/Minor</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>36</td>
</tr>
<tr>
<td>CHM 123-123L, 124-124L, 201-201L, (302 or (303 &amp; 304)), 313-313L, 314-314L, 496</td>
<td>23-26</td>
</tr>
<tr>
<td>CHM electives (select courses from)</td>
<td>10-13</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies | 12 |

History | 6 |
Literature: English or Foreign Language 3  
Creative and Performing Arts 3  
Foreign Language and/or Additional Arts and/or Humanities 3-9  
Social Sciences 12  
Mathematics (excludes MTH 102, 204, 205) 8-9  
Natural Sciences 8  
PHY 201-201L, 202-202L

Communication Competencies 0-9  
Introduction to the University: ASI 150 0-1  
General Education courses/academic electives to total at least 124

1 Advanced placement is permitted.  
2 May substitute two upper level courses from other science departments with permission of chairperson.

Bachelor of Science with a major in Biochemistry (BCM)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemistry</strong>¹</td>
<td>37</td>
</tr>
<tr>
<td>Year 1</td>
<td>8</td>
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<tr>
<td>CHM 123-123L, 124-124L</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>CHM 201-201L, 313-313L, 314-314L</td>
<td></td>
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<tr>
<td>Year 3</td>
<td>17</td>
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<tr>
<td>CHM 303-303L, 304, 451, 452, 462L, 495, 498</td>
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<tr>
<td>Year 4</td>
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<tr>
<td>CHM 496, 497</td>
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<tr>
<td>Biology</td>
<td>11</td>
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<tr>
<td>Year 1</td>
<td>7</td>
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<tr>
<td>BIO 151, 152-152L</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>BIO elective and laboratory</td>
<td></td>
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</table>

Breadth Requirement

| Natural Sciences | 17 |
| PHY 206, 207, 210L | 7 |
| Select courses from: | |
| BIO 312, 314, 403, 404, 411, 427, 440, 462, 466 | 10 |
| CHM 404, 412, 415, 415L, 417, 418L, 426, 427, 499 | |
| Mathematics, Computer Science | 15 |
| CPS 132 | 3 |
| MTH 168, 169, 218 | 12 |
| Foreign Language | 6-8 |
| Social and Behavioral Sciences | 6 |
| Humanities | 9 |
| Philosophy and Religious Studies | 12 |

Communication Competencies 0-9  
Introduction to the University: ASI 150 0-1  
General Education courses/academic electives to total at least 120

¹ Advanced placement is permitted.
### Chemistry

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CHM 123-123L, 124-124L</td>
</tr>
<tr>
<td>2</td>
<td>CHM 201-201L, 313-313L, 314-314L</td>
</tr>
<tr>
<td>3</td>
<td>CHM 303-303L, 304-304L, 317, 417, 418L, 495</td>
</tr>
<tr>
<td>4</td>
<td>CHM 415-415L, (420 or (451 &amp; 452)), 496, 497, 498</td>
</tr>
</tbody>
</table>

**CHM electives (select courses from):**
- CHM 404, 412, 426, 427, 462L, 477, 478, 490L, 499

### Breadth Requirement

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics, Computer Science</td>
<td>15</td>
</tr>
<tr>
<td>CPS 132</td>
<td>3</td>
</tr>
<tr>
<td>MTH 168, 169, 218</td>
<td>12</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6-8</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
</tbody>
</table>

**Introduction to the University: ASI 150**
- 0-1

**General Education courses/academic electives to total at least**
- 120

---

1. Advanced placement is permitted.
2. May substitute one approved science course from another department.
3. Should be completed during the first two years.

### Minor in Chemistry (CHM)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123-123L, 124-124L, (302 or 303)</td>
<td>General Chemistry</td>
</tr>
</tbody>
</table>

### Communication Competencies

**Introduction to the University:**
- 0-9

### Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 115</td>
<td>COLLEGE PREPARATORY CHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>CHM 115L</td>
<td>COLLEGE PREPARATORY CHEMISTRY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>CHM 123</td>
<td>GENERAL CHEMISTRY</td>
<td>3</td>
</tr>
</tbody>
</table>

**Prerequisite(s):** One year of high school chemistry or equivalent.
CHM 123L GENERAL CHEMISTRY LABORATORY
Laboratory course to complement CHM 123. One three-hour laboratory session each week.
Corequisite(s): CHM 123.

CHM 124 GENERAL CHEMISTRY
Comprehensive treatment of the fundamentals of general chemistry.
Prerequisite(s): CHM 123.

CHM 124L 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 AND SOCIETY
A course for nonscience majors. The application of chemical principles to the examination of issues such as environmental quality, disease, hunger, synthetic materials, and law enforcement. Depending upon background and experience, a student needing a laboratory course may enroll in either CHM 115L or CHM 123L.
Prerequisite(s): One year of high school chemistry or equivalent.

CHM 201 QUANTITATIVE ANALYSIS
Application of the principles of chemical equilibrium to the theory and techniques of gravimetric, volumetric, spectrophotometric, and electroanalytical methods of chemical analysis.
Prerequisite(s): CHM 124, 124L.

CHM 201L QUANTITATIVE ANALYSIS LABORATORY
Course to accompany CHM 201. One three-hour laboratory period each week.

CHM 302 PHYSICAL CHEMISTRY
Essential elements of thermodynamics, chemical kinetics, equilibria, and electrochemistry for those with a primary interest in the life sciences. For B.A. chemistry majors and premedical, predental, and biology majors.
Prerequisite(s): CHM 124.

CHM 302L PHYSICAL CHEMISTRY LABORATORY
Course to accompany CHM 302. One three-hour laboratory each week.
Prerequisite(s): CHM 201, 201L.
Corequisite(s): CHM 302.

CHM 303 PHYSICAL CHEMISTRY
Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers.
Prerequisite(s): CHM 201 or equivalent.
Corequisite(s): MTH 218.

CHM 303L PHYSICAL CHEMISTRY LABORATORY
Course to accompany CHM 303. One three-hour laboratory each week.
Prerequisite(s): MTH 218.

CHM 304 PHYSICAL CHEMISTRY
Fundamentals of thermodynamics, chemical kinetics, electrochemistry, and spectroscopy with a mathematics format. For B.S. chemistry and biochemistry majors and chemical engineers.

CHM 304L PHYSICAL CHEMISTRY LABORATORY
Course to accompany CHM 304. One three-hour laboratory each week.
Corequisite(s): MTH 218.

CHM 313 ORGANIC CHEMISTRY
Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences.

**Prerequisite(s):** CHM 124.

**CHM 313L** ORGANIC CHEMISTRY LABORATORY

Common separation, purification, and analytical techniques including chromatography and spectroscopy. One three-hour laboratory each week.

**Corequisite(s):** CHM 313.

**CHM 314** ORGANIC CHEMISTRY

Major topics in organic chemistry including synthesis, mechanisms, stereochemistry, and spectroscopy. Required of all chemistry majors and students in the life sciences.

**Prerequisite(s):** CHM 313.

**CHM 314L** ORGANIC CHEMISTRY LABORATORY

Synthesis and characterization of organic materials utilizing skills from CHM 313L. One three-hour laboratory each week.

**Prerequisite(s):** CHM 313L.

**Corequisite(s):** CHM 314.

**CHM 317** SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS

The use of nuclear magnetic resonance, infrared, and mass spectrometry in elucidating structures. Emphasis on interpretation and integration of spectral data in problem solving.

**Prerequisite(s):** (CHM 314, 314L) or equivalent.

**CHM 341** ENVIRONMENTAL CHEMISTRY

An introduction to the chemical processes in the environment. Topics include chemical equilibrium in aqueous solution, reaction mechanisms as applied to atmospheric chemistry, and analytical methods commonly applied to environmental samples.

**Prerequisite(s):** CHM 314 or permission of instructor.

**CHM 341L** ENVIRONMENTAL CHEMISTRY LABORATORY

A laboratory course to accompany CHM 341.

**Corequisite(s):** CHM 341.

**CHM 404** SPECIAL TOPICS IN PHYSICAL CHEMISTRY

Thorough treatment of topics such as electrochemistry, macromolecules, photochemistry, or spectroscopy. May be repeated as topics change.

**Prerequisite(s):** CHM 302 or 303.

**CHM 412** INTERMEDIATE ORGANIC CHEMISTRY

Modern theory and practice of organic chemistry. May include structure-reactivity relationships, reaction mechanism, and synthetic topics not normally treated in introductory courses.

**Prerequisite(s):** CHM 302 or equivalent; CHM 313, 314; senior standing.

**CHM 415** ANALYTICAL CHEMISTRY

Chemical analysis based on modern instrumentation. Chromatographic, electrochemical, and spectroscopic methods.

**Prerequisite(s):** CHM 201, 201L; (CHM 302 or 304).

**CHM 415L** ANALYTICAL CHEMISTRY LABORATORY

Course to accompany CHM 415. Two three-hour laboratory sessions each week.

**Prerequisite(s):** CHM 201L; CHM 302 or equivalent.

**CHM 417** INORGANIC CHEMISTRY

An advanced course in modern inorganic chemistry. Atomic structure, principles of bonding and structure, acid-base chemistry, periodicity, coordination compounds, nonaqueous solvents, electrochemistry, molecular symmetry, organometallic compounds, and the chemistry of selected representative elements.

**Prerequisite(s):** CHM 314.
Corequisite(s): CHM 302 or 304.

CHM 418L INORGANIC CHEMISTRY LABORATORY
Laboratory course dealing with the synthesis and characterization of inorganic and organometallic compounds. Topics include vacuum and inert atmosphere techniques, separation and purification, spectroscopic characterization, X-ray diffraction, magnetic moment, and conductance measurements.
Prerequisite(s): CHM 201L, 314L.
Corequisite(s): CHM 417.

CHM 420 BIOCHEMISTRY
Prerequisite(s): CHM 314.

CHM 426 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, 314L) or equivalent.

CHM 427 MEDICINAL CHEMISTRY
The chemical mechanisms of action of the major drug classes will be surveyed with particular emphasis on the facets of organic chemistry that control drug-receptor interactions, metabolism and mechanisms of toxicity and resistance. First term.
Prerequisite(s): CHM 314; (CHM 420 or 451).

CHM 451 GENERAL BIOCHEMISTRY I
Discussion of the chemistry and biochemistry of carbohydrates, amino acids, proteins, and nucleic acids, including health-science and methodologic aspects. Descriptions of enzymology, protein purification, and carbohydrate metabolism related to such topics as bioenergetics, membranes, and disease processes. Recommended for students desiring entry into graduate and professional schools.
Prerequisite(s): CHM 201, 314.

CHM 452 GENERAL BIOCHEMISTRY II
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
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 452) or equivalent.

CHM 462L 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 451.

CHM 463L 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, 201L, 302.

**CHM 477 HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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**

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 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 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**

A series of seminars as described under CHM 495. Required of all senior chemistry and biochemistry majors in the B.S. programs.

**CHM 498 RESEARCH AND THESIS**

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 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.
School of Engineering

Civil and Environmental Engineering and Engineering Mechanics (Collapse Description)

The Department of Civil and Environmental Engineering and Engineering Mechanics offers a broad-based curriculum leading to a Bachelor of Civil Engineering (BCE) degree. The BCE program offers sufficient elective courses to obtain a concentration in construction, environmental engineering, structures, water resources, geotechnical or transportation.

The mission of the program is to graduate broadly educated, technically competent individuals prepared for professional careers or for advanced studies.

Within the first several years following completion of the program, University of Dayton Bachelor of Civil Engineering graduates are expected to meet the following program educational objectives:

- have successful careers in civil engineering or other professions
- pursue advanced degrees in support of their chosen profession
- conduct professional and personal endeavors in a responsible and ethical manner
- accept leadership and service 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.

Before enrolling in any engineering course required by the Civil Engineering Program, a grade of C- or better must be earned in all of the prerequisites courses for students majoring in civil engineering.

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, Interim Chairperson
Professors Emeriti: Bogner, Payne, Phillips, Whitney
Distinguished Service Professor: Ryckman
Professor: J. Saliba
Assistant Professors: Crosson, Donaldson, Eustace, D. Taylor
Lecturer: Alakkad
Visiting Professor: Chase
Adjunct Assistant Professors: McCrate, W. Taylor, Wang

Majors/Minors (Collapse All)
## Major/Minor Name

Bachelor of Civil Engineering (CEE)

### First-Year

<table>
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<tr>
<th>Course</th>
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<th>Title</th>
<th>Sem. Hrs.</th>
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<tr>
<td>CHM 123-123L</td>
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<td>GENERAL CHEMISTRY (CHM 123)</td>
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<tr>
<td>EGR 100</td>
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<td>ENRICHMENT WORKSHOP</td>
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<td>EGR 103</td>
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<td>EGR 201</td>
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<td>ENG 101-102 or</td>
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<td>or 114 or</td>
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<td>or 198</td>
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<td>MTH 188</td>
<td>MAT</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
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<td>MTH 189</td>
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<td>PHY 206</td>
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<td>REL 103</td>
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### Sophomore-Year

#### First-Term

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<td>CEE 213</td>
<td>SURVEYING</td>
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<td>CEE 221L</td>
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<td>CHM 124</td>
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<td>EGM 202</td>
<td>DYNAMICS</td>
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<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
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<td>PHY 207</td>
<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
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#### Second-Term

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<td>CEE 214</td>
<td>HIGHWAY GEOMETRICS</td>
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<td>EGM 303</td>
<td>MECHANICS II</td>
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<td>EGR 202</td>
<td>ENGINEERING THERMODYNAMICS</td>
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<tr>
<td>GEO 218</td>
<td>ENGINEERING GEOLOGY</td>
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<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
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<td>General Education elective^2</td>
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### Third-Term

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<td>SURVEYING FIELD PRACTICE</td>
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### Junior-Year

#### First-Term

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<tr>
<td>CEE 313-313L</td>
<td>HYDRAULICS (CEE 313)</td>
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<td>HYDRAULICS LABORATORY (CEE 313L)</td>
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<tr>
<td>CEE 316</td>
<td>MAT</td>
<td>ANALYSIS OF STRUCTURES I</td>
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<tr>
<td>CEE 434-434L</td>
<td>WATER &amp; WASTEWATER ENGINEERING (CEE 434)</td>
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<td>WATER &amp; WASTEWATER ENGINEERING LABORATORY (CEE 434L)</td>
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<td>CMM 110</td>
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<td>EGR 203</td>
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<td>PHL 316</td>
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#### Second-Term

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<td>CEE 311-311L</td>
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<td>CEE 312-312L</td>
<td>GEOTECHNICAL ENGINEERING (CEE 312)</td>
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<td>CEE 333</td>
<td>WATER RESOURCES ENGINEERING</td>
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<td>CEE 403</td>
<td>TRANSPORTATION ENGINEERING</td>
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<td>CEE 411</td>
<td>DESIGN OF STEEL STRUCTURES</td>
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<td>CMM 111 or 112</td>
<td>INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
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<td></td>
<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
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**Senior-Year**

**First-Term**

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<tr>
<td>CEE 412</td>
<td>DESIGN OF CONCRETE STRUCTURES</td>
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<td>CEE 425</td>
<td>CIVIL ENGINEERING SYSTEMS</td>
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<tr>
<td>CMM 113</td>
<td>INTERVIEWING</td>
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<td>CEE electives 3,4</td>
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<td>Philosophy or Religion elective 2</td>
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**Second-Term**

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<td>CEE 450 5</td>
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<td>ECO 300</td>
<td>PRINCIPLES OF ECONOMICS</td>
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<td>HST 343</td>
<td>HISTORY OF CIVIL ENGINEERING</td>
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<td>CEE electives 3,4</td>
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<tr>
<td>Technical elective or CEE elective 2,3,4</td>
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1. Three semester hours waived if accepted into ENG 198 or ENG 114.
2. 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.
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, soils, transportation, and water resources engineering.
5. 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 the approval of the chair.

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.

### Engineering Mechanics

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EGM 303</td>
<td>MECHANICS II</td>
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<td>CEE or EGM or MAT 540</td>
<td>COMPOSITES DESIGN</td>
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<td>CEE or MAT 541</td>
<td>MECHANICS OF COMPOSITE MATERIALS</td>
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<td>EGM 503</td>
<td>INTRODUCTION TO CONTINuum</td>
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<td>EGM 511</td>
<td>EXPERIMENTAL STRESS ANALYSIS</td>
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<td>EGM 533</td>
<td>THEORY OF ELASTICITY</td>
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<td>EGM 546</td>
<td>FINITE ELEMENT ANALYSIS I</td>
<td>3</td>
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<tr>
<td>MEE 504</td>
<td>FUNDAMENTALS OF FLUID MECHANICS</td>
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\textsuperscript{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.

Environmental Engineering  \hspace{1cm} \textbf{Sem. Hrs. 12}

Select four courses from: \textsuperscript{1}

<table>
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<td>CEE 434</td>
<td>WATER &amp; WASTEWATER ENGINEERING</td>
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<td>CHM 341</td>
<td>ENVIRONMENTAL CHEMISTRY</td>
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<tr>
<td>CEE 562</td>
<td>PHYS &amp; CHEM WATER &amp; WASTEWTR TREAT</td>
<td>3</td>
</tr>
<tr>
<td>CEE or CME 563</td>
<td>HAZARDOUS WASTE ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CEE 564</td>
<td>SOLID WASTE ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CEE or CME 574 Engineering I</td>
<td>FUND OF AIR POLLUTION</td>
<td>3</td>
</tr>
<tr>
<td>CEE or CME 575 Engineering II</td>
<td>FUND OF AIR POLLUTION</td>
<td>3</td>
</tr>
<tr>
<td>CEE or CME 576 Process</td>
<td>ENVIRONMNTL ENGR SEPARATN</td>
<td>3</td>
</tr>
</tbody>
</table>

\textsuperscript{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, \textsuperscript{2}Not permissible for CME students.

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.

Structures  \hspace{1cm} \textbf{Sem. Hrs. 12}

Select four courses from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 311L</td>
<td>CIVIL ENGINEERING MATERIALS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>CEE 316</td>
<td>ANALYSIS OF STRUCTURES I</td>
<td>3</td>
</tr>
<tr>
<td>CEE 411</td>
<td>DESIGN OF STEEL STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>CEE 412</td>
<td>DESIGN OF CONCRETE STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>CEE 500</td>
<td>ADVANCED STRUCTURAL ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>CEE 501</td>
<td>STRUCTURAL ANALYSIS BY COMPUTERS</td>
<td>3</td>
</tr>
<tr>
<td>CEE 502</td>
<td>PRESTRESSED CONCRETE</td>
<td>3</td>
</tr>
<tr>
<td>CEE 504</td>
<td>STRUCTURAL DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>CEE 505</td>
<td>PLASTIC DESIGN IN STEEL</td>
<td>3</td>
</tr>
<tr>
<td>CEE 507</td>
<td>MASONRY DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>CEE 508</td>
<td>DESIGN OF TIMBER STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>CEE 524</td>
<td>FOUNDATION ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>CEE 540</td>
<td>COMPOSITE DESIGN</td>
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</tr>
</tbody>
</table>

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.

Sem. Hrs.
### Transportation Engineering

Select four courses from: 1
- CEE 403 TRANSPORTATION ENGINEERING 3
- CEE 515 PAVEMENT ENGINEERING 3
- CEE 550 HIGHWAY GEOMETRIC DESIGN 3
- CEE 551 TRAFFIC ENGINEERING 3
- CEE 552 INTELLIGENT TRANSPORTATION SYSTEMS 3
- CEE 558 TRAFFIC ENGINEERING RESEARCH 3
- CEE 595 SPECIAL PROBLEMS IN CIVIL ENGINEERING 3

---

1. 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.

### Water Resources Engineering

Select four courses from: 1
- CEE 313 HYDRAULICS 3
- CEE 333 WATER RESOURCES ENGINEERING 3
- CEE 580 HYDROLOGY AND SEEPAGE 3
- CEE 582 ADVANCED HYDRAULICS 3
- CEE 584 OPEN CHANNEL FLOW 3
- CEE 595 SPECIAL PROBLEMS IN CIVIL ENGINEERING 3

---

1. Courses selected may not be those already required for student's major.

### Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 101</td>
<td>SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td>CEE 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td>CEE 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td>CEE 213</td>
<td>SURVEYING</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

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.

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 214 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 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 216L 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 218 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
Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required of all civil engineering juniors.

CEE 311 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 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.
Prerequisite(s): EGM 303.
Corequisite(s): CEE 311.

CEE 312 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; GEO 218.
Corequisite(s): CEE 312L.

CEE 312L 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
Basic principles of fluid mechanics in closed conduits and open channels. Principles include fluid statics, conservation of mass, conservation of momentum, conservation of energy, and fluid dynamics. Presentation of fluid mechanics principles through the solution of practical problems and a comprehensive semester project. First term, each year.
Prerequisite(s): EGM 202.
Corequisite(s): CEE 313L, 434.
CEE 313L  HYDRAULICS LABORATORY
Laboratory experiments and problems associated with CEE 313. First term, each year.
Corequisite(s): CEE 313.

CEE 316  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. First term, each year.
Prerequisite(s): EGM 303.

CEE 333  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.
Prerequisite(s): CEE 313.

CEE 390  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 398  RESEARCH AND INNOVATION LABORATORY 1 - 6
Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

CEE 400  SEMINAR 0
Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required of all civil engineering seniors.

CEE 403  TRANSPORTATION ENGINEERING 3
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 411  DESIGN OF STEEL STRUCTURES 3
Design and behavior of structural steel connections, columns, beams, and beams subjected to tension, compression, bending, shear, torsion, and composite action.
Prerequisite(s): CEE 316.

CEE 412  DESIGN OF CONCRETE STRUCTURES 3
Design and behavior of reinforced concrete slabs, beams, columns, walls, and footings subjected to tension, compression, bending, shear, and torsion.
Prerequisite(s): CEE 311, 316.

CEE 420  ENGINEERING ECONOMICS 1
Basic principles and techniques of economic analysis of engineering projects.
Prerequisite(s): MTH 169.

CEE 421  CONSTRUCTION ENGINEERING 3
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  DESIGN AND CONSTRUCTION PROJECT MANAGEMENT  3
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 ENGINEERING SYSTEMS  3
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 & WASTEWATER ENGINEERING  3
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, 434L.

CEE 434L  WATER & WASTEWATER ENGINEERING LABORATORY  1
Laboratory exercises, demonstrations, and design problems associated with
water and wastewater engineering.
Corequisite(s): CEE 434.

CEE 450  CIVIL ENGINEERING DESIGN  3
Group design of complete projects, drawing on the knowledge acquired in a
spectrum of civil engineering subjects.
Prerequisite(s): CEE 312, 333, 403, 411, 412, 434.

CEE 463  HAZARDOUS WASTE ENGINEERING  3
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 498  RESEARCH AND INNOVATION LABORATORY  1-6
Students participate in (1) selection and design, (2) investigation and data
collection, (3) analysis and (4) presentation of a research project. Research
can include, but is not limited to, developing an experiment, collecting and
analyzing data, surveying and evaluating literature, developing new tools
and techniques including software, and surveying, brainstorming and
evaluating engineering solutions and engineering designs. Proposals from
teams of students will be considered.

CEE 499  SPECIAL PROBLEMS IN CIVIL ENGINEERING  1-6
Particular assignments to be arranged and approved by chairperson of the
department. Departmental elective.
College of Arts and Sciences

(CMM) Communication (Collapse Description)

The course 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, Gihary, Harwood, Mortan, Rang, Wolff
Professors: Cusella, Hess, Lain, Robinson, Skill, Thompson
Associate Professors: Anderson, Griffin, Scantlin, Wallace, Watters, Yoder
Assistant Professors: Dunlevy, Han, Langhorne, Meng, Taylor
Media Executive in Residence: Walters
Lecturers: Angel, Combs, Flynn, Oh, Van Zandt

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Communication (Communication Management Concentration) (CMT)

- Communication Management
  - CMM 110, (111 or 112), 113, 201, 202, 320, 321, 330, 412, 421
  - Select two courses from:
    - CMM 322, 351, 352, 413, 420, 498
  - Select courses in CMM or THR
  - Social Science/Professional Studies in a single academic discipline

Sem. Hrs.

Communication Management 39

Social Science/Professional Studies in a single academic discipline 12

Liberal Studies Curriculum

- Humanities and Fine Arts
  - Philosophy and Religious Studies 12
  - History 6
  - Literature: English or Foreign Language 3
  - Creative and Performing Arts 3
  - Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses) 3-9
  - Social Sciences 12
  - Mathematics (excludes MTH 102, 204, 205) 3
  - Natural Sciences 11

Communication Competencies (ENG 101-102 or 114 or 198) 0-6

Introduction to the University: ASI 150 0-1
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, 251, 261, 271, 301, 351, 361, 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, or interdisciplinary studies.

Bachelor of Arts with a major in Communication (Communication Studies Concentration) (CSS)

Sem. Hrs.

<table>
<thead>
<tr>
<th>Communication Studies1</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330</td>
<td>12</td>
</tr>
<tr>
<td>Select courses from CMM or THR2,3</td>
<td>27</td>
</tr>
</tbody>
</table>

Social Science/Professional Studies in a single academic discipline4 12

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies

History

Literature: English or Foreign Language

Creative and Performing Arts

Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)

Social Sciences

Mathematics (excludes MTH 102, 204, 205)

Natural Sciences

9

Communication Competencies (ENG 101-102 or 114 or 198) 0-6

Introduction to the University: ASI 150 0-1

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 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, 251, 261, 271, 301, 351, 361, 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, or interdisciplinary studies.

Bachelor of Arts with a major in Communication (Electronic Media Concentration) (RTV)

Sem. Hrs.

<table>
<thead>
<tr>
<th>Electronic Media1</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330, 340, 343, 3972</td>
<td>19-21</td>
</tr>
<tr>
<td>Select one course from: CMM 341, 342, 344</td>
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</tr>
<tr>
<td>Select two courses from: CMM 345, 440, 442, 444, 446, 449, 498 CMS 414</td>
<td>6</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Course Category</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal Studies Curriculum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Any courses in CMM or THR&lt;sup&gt;2&lt;/sup&gt;</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Communication Competencies (ENG 101-102 or 114 or 198)</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
<td></td>
</tr>
<tr>
<td>General Education courses/academic electives to total at least</td>
<td>124</td>
<td></td>
</tr>
</tbody>
</table>

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, 251, 261, 271, 301, 351, 381, 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, or interdisciplinary studies.

Bachelor of Arts with a major in Communication (Journalism Concentration) (JRN)

<table>
<thead>
<tr>
<th>Course Category</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330, 331, 430, 431, 432</td>
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<tr>
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</tr>
<tr>
<td>CMM 332, 333, 334, 412, 416, 439, 498</td>
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<td></td>
</tr>
<tr>
<td>CMS 414</td>
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<td></td>
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<tr>
<td>Select courses in CMM or THR&lt;sup&gt;2&lt;/sup&gt;</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Social Science/Professional Studies in a single academic discipline&lt;sup&gt;3&lt;/sup&gt;</td>
<td>12</td>
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</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Course Category</th>
<th>Minimum Hours</th>
<th>Maximum Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities and Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td></td>
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<tr>
<td>Literature: English or Foreign Language</td>
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<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
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</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
<td></td>
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<tr>
<td>Social Sciences</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

Communication Competencies (ENG 101-102 or 114 or 198) | 0-6 |               |

Introduction to the University: ASI 150 | 0-1 |               |
General Education courses/academic electives to total at least 124

1At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hour requirement.

2Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the thirty-nine semester hour requirement.

3Twelve 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, or interdisciplinary studies.

Bachelor of Arts with a major in Communication (Public Relations Concentration) (PUB)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Relations¹</td>
<td></td>
</tr>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330, 360, 412, 460, 461</td>
<td>24</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td></td>
</tr>
<tr>
<td>CMM 331, 332, 421, 430, 469, 498</td>
<td>6</td>
</tr>
<tr>
<td>Select courses in CMM or THR²</td>
<td>9</td>
</tr>
<tr>
<td>Social Science/Professional Studies in a single academic discipline³</td>
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</tbody>
</table>

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
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<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
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<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Language: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

Communication Competencies (ENG 101-102 or 114 or 198) | 0-6 |

Introduction to the University: ASI 150 | 0-1 |

General Education courses/academic electives to total at least 124

1At least twenty-four of the required thirty-nine semester hours in all communication concentrations must be 300-400 level. No more than six total semester hours of CMM 390, CMM 397 and CMM 498 may be applied toward the thirty-nine semester hour requirement.

2Dance courses in the theatre program (THR 201, 251, 261, 271, 301, 351, 361, 371) do not count toward the thirty-nine semester hour requirement.

3Twelve 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, or interdisciplinary studies.

Bachelor of Arts with a major in Communication (Theatre Concentration) (CTR)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre¹</td>
<td></td>
</tr>
<tr>
<td>CMM 110, (111 or 112), 113, 201, 202, 330</td>
<td>12</td>
</tr>
<tr>
<td>THR 203, 310, 340, 415</td>
<td>12</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td></td>
</tr>
<tr>
<td>THR 305, 307, 323, 325, 326, 330, 424</td>
<td>6</td>
</tr>
<tr>
<td>Select courses in CMM or THR²</td>
<td>9</td>
</tr>
<tr>
<td>Social Science/Professional Studies in a single academic discipline³</td>
<td>12</td>
</tr>
</tbody>
</table>
**Liberal Studies Curriculum**

<table>
<thead>
<tr>
<th>Social Sciences</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities and Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities (excludes CMM courses)</td>
<td>3-9</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

**Communication Competencies (ENG 101-102 or 114 or 198)** | 0-6 |
**Introduction to the University: ASI 150** | 0-1 |
**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, 251, 261, 271, 301, 351, 361, 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, or interdisciplinary studies.

**Minor in Communication (CMM)**

<table>
<thead>
<tr>
<th>Communication</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110, (111 or 112), 113</td>
<td>3</td>
</tr>
<tr>
<td>Select twelve additional semester hours (300- or 400-level)</td>
<td>12</td>
</tr>
</tbody>
</table>

1. In consultation with the chairperson.

**Minor in Political Journalism (POJ)**

<table>
<thead>
<tr>
<th>Political Journalism</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 201, 330</td>
<td>6</td>
</tr>
<tr>
<td>Select four courses from:</td>
<td>12</td>
</tr>
<tr>
<td>CMM 331, 354, 355, 431, 432</td>
<td></td>
</tr>
</tbody>
</table>

1. Available only to political science majors.

**Courses (Collapse All Courses)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
</tr>
<tr>
<td>CMM 111</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
</tr>
</tbody>
</table>

Communication processes for small decision-making groups. Focus is on the development of general competencies in leadership, group roles, conflict management, agenda setting, problem analysis and research, decision making and critical thinking.
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 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
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 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 FOUNDATIONS OF COMMUNICATION THEORIES AND RESEARCH
Study of the nature and scope of communication theories and research. Examination of how the communication discipline developed from classical traditions to its modern perspective.

CMM 310 VOICE AND DICTIO
The four phases of speech production: proper breathing, phonation, resonance, and articulation. Emphasis on projection, quality and clarity of speech. Analysis of students' voices through tape recordings.

CMM 311 STUDIES IN ORAL PERFORMANCE
Oral performance of poetry, prose, and drama; combining study of vocal modulations, pitch, inflection, and tone color with intellectual and emotional analysis of selections as a means of making the literature alive and immediately present.

CMM 312 LISTENING THEORY AND APPLICATION
Study of theories and related application during comprehensive, discriminate, empathic, and appreciative listening; emphasis on listening competently and responsibly.

CMM 313 NONVERBAL COMMUNICATION
Survey of theory and research in nonverbal behavior. Examination of the influence of environmental factors, physical behavior, and vocal cues on human communication.

CMM 314 DIMENSIONS OF BRITISH COMMUNICATION
Exploration of mass media, public relations, interpersonal communication, political communication, theatre and other communication subfields in the British context. This course will be offered only through a UD study abroad program.

CMM 315 INTERNATIONAL MASS MEDIA
Focus on the mass media of a particular foreign country or region of the world. Topics may include media content, use, societal effects and ownership.

CMM 320 INTERPERSONAL COMMUNICATION
Study of communication behavior in a variety of dyadic relationships including acquaintance, friendship, work, romantic, and family. Focus on communicative behavior and communicative processes in relationship development including building trust, managing conflict, negotiating power,
and listening empathetically.

**CMM 321 SMALL GROUP COMMUNICATION**
Examination of theory and research related to communicative processes in small, task-oriented groups. Applications include a focus upon decision-making strategies, leadership, conflict management, and cohesion.

**Prerequisite(s):** CMM 110.

**CMM 322 INTERVIEWING FOR COMMUNICATION AND BUSINESS**
Analysis of communication in structured dyadic interaction. Emphasis on the following types of interviews: information-gathering, employment, appraisal, and persuasive. Application through role-playing and feedback systems.

**Prerequisite(s):** CMM 113.

**CMM 330 MEDIA WRITING**
Developing and practicing writing skills for journalism, public relations, and electronic media. Study and practice of ethics in determining news values, gathering information, and communicating clearly and accurately for mass audiences. AP style emphasized. Studio fee.

**CMM 331 FEATURE WRITING**
Developing and writing nonfiction stories for newspapers and magazines. Story types include personality profile, color, background, consumer, and commentary. Study and practice in journalistic reporting skills and literary writing techniques. Emphasis on content, organization, style, and accuracy. Strong command of AP style necessary.

**Prerequisite(s):** CMM 330.

**CMM 332 PUBLICATION DESIGN**
Layout and design of print and electronic publications, including newsletters, brochures, and web-based publications. Instruction in desktop and web publishing software, use of type and illustration, cost appraisal, printing methods. Studio fee.

**CMM 333 FREE-LANCE WRITING**
Steps of free-lance publication, from market analysis to query letters to writing and rewriting. Mostly nonfiction, magazine markets, some newspaper and nonfiction book markets.

**CMM 334 SPORTS WRITING**
In addition to game stories, attention is also paid to writing about personalities, legal issues, and financial issues on the interscholastic, intercollegiate, amateur, and professional levels. Strong writing skills and knowledge of journalistic style expected.

**Prerequisite(s):** CMM 330.

**CMM 340 FUNDAMENTALS OF BROADCASTING**
Survey of broadcasting, with emphasis on television and radio networks, programming, regulation, audience measurement, audience effects, and technology. Although attention is given both to the origins and future of the field, contemporary broadcasting is emphasized.

**CMM 341 AUDIO PRODUCTION**
Study of the theories, processes, and technologies of audio production practices that can be applied in radio, television, and multimedia production. Exercises in recording of voice, music, and special effects. Course includes the operation of basic studio and field equipment, including analog and basic digital recording and editing. Studio fee.

**CMM 342 FUNDAMENTALS OF VIDEO PRODUCTION**
Explores the techniques of studio and remote video production. Includes the technical and creative aspects of planning and script preparation, producing, directing, technical directing, graphics, editing, camera, lighting, and sound for a variety of video programs. Studio fee.

**CMM 343 SCRIPTWRITING FOR ELECTRONIC MEDIA**
Study of concrete approaches to and practice with the kinds of writing being done professionally in all program types on television and radio including corporate media writing.

**Prerequisite(s):** CMM 330 or permission of instructor.

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**CMM 344  MULTIMEDIA DESIGN AND PRODUCTION I**

Introduction to producing in the interactive media of CD-ROM and other digital formats. Reviews basic object linking and embedding in familiar computer programs such as Word, PowerPoint, and Freelance Graphics. Students build skills in multimedia authoring, using all the fundamental tools of graphics, text, audio, and video. Studio fee.

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**CMM 345  CLASSIC AMERICAN FILM**

A survey of the artistic evolution of American film, including the analysis of styles of producing, scripting, acting, directing, lighting, sound, cinematography, set design and editing through viewing of classic American films and selected international films that have influenced the art of American filmmaking. Fee.

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**CMM 350  PROPAGANDA ANALYSIS**

Examination of major propaganda campaigns in history beginning with Greek democracy. Emphasis on twentieth century propaganda as psychological warfare. Principles of Aristotelean rhetorical theory applied to propaganda analysis.

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**CMM 351  PUBLIC SPEAKING**

Oral communication in professional situations. Adaptation of principles of effective speaking to specific audiences and occasions. Delivery of informational, problem-solving, and special-occasion speeches.

**Prerequisite(s):** CMM 111 or 112.

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**CMM 352  PERSUASION**

Study of the use of communication to form attitudes. Examination of attitudes and social influence and their effects on human behavior. Topics include selected theories of persuasion, argument construction, and practical application.

---

**CMM 353  SPEECH WRITING**

Study of speech structure and composition. Critical analysis of model speech, in conjunction with the preparation and presentation of original speeches on current public questions.

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**CMM 354  POLITICAL CAMPAIGN COMMUNICATION**

Examination of theory and research on the role, processes and effects of communication in political campaigns with emphasis on mass media, public speaking, debates, advertising, and interpersonal communications.

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**CMM 355  RHETORIC OF SOCIAL MOVEMENTS**

Study of rhetorical communication in American social movements through examination of the strategies, themes and tactics used by agitators and the institutional responses to discourse aimed at social change.

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**CMM 360  PRINCIPLES OF PUBLIC RELATIONS**

Survey of the field of public relations emphasizing writing and public relations, theoretical implications of the field, the practitioner's role in organization and the community.

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**CMM 390  INDEPENDENT STUDY**

Supervised study involving directed readings, individual research (library, field, or experimental), or projects in the specialized areas of communication. May be repeated for up to six semester hours.

**Prerequisite(s):** Permission of department chairperson.

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**CMM 397  COMMUNICATION PRACTICUM**

Contracted participation in an approved on-campus communication organization. One semester hour per term to a maximum of three semester hours. Grading Option Two only.
CMM 410 FAMILY COMMUNICATION
Study of the family from a communication perspective, considering the communication processes within the family and the extent to which communication affects and is affected by the family.

CMM 411 HEALTH COMMUNICATION
Examination of communication theory and research as they relate to health care. Issues include reassurance, the role of the patient, interviews, health organizations, the media and health, compliance, providing explanations, and health care professions frequently neglected.

CMM 412 STATISTICAL METHODS IN COMMUNICATION
Study of data gathering methods in communication. Practice in sampling, survey methods, questionnaire development, and experimental design. Emphasis on the use of logic to interpret data and to support claims.

CMM 413 COMMUNICATION IN THE INFORMATION AGE
Examination of issues related to development, economics, programming, and the future of new mass communication technologies. **Prerequisite(s):** CMM 201 or permission of instructor.

CMM 416 DEVELOPMENT OF MASS MEDIA
History and analysis of the development and interdependence of mass media, print and electronic. Emphasis on its role in political and economic progress of U.S. and attendant responsibility.

CMM 420 COMMUNICATION AND CONFLICT MANAGEMENT
Examination of the functions of communication in interpersonal conflict such as marital conflict, role conflict, and organizational conflict. Communicative strategies and tactics for managing conflict.

CMM 421 COMMUNICATION IN ORGANIZATIONS
Analysis of message initiation, diffusion, and reception in organizations; analysis of the role of communication in developing productive work relationships, management practices, and organizational cultures.

CMM 430 COPYEDITING
Editing, particularly news copy editing and headline writing. Emphasis on clear and concise wording; proper spelling, grammar, and punctuation; and accuracy. Strong command of AP style necessary. **Prerequisite(s):** CMM 330.

CMM 431 PUBLIC AFFAIRS REPORTING
Investigative and specialized reporting on matters of public concern. Practice in gathering information from primary and secondary sources, and writing about complex subjects for mass audiences. **Prerequisite(s):** CMM 330.

CMM 432 THE LAW AND NEWS MEDIA
Exploration of the free press clause of the First Amendment, as defined by the courts and media practice. Study of First Amendment core values and theories. Investigation into law on libel, privacy, censorship, access to information, and copyright, as well as regulation of broadcast, cable and new electronic media. **Prerequisite(s):** Junior standing.

CMM 439 SPECIAL TOPICS IN JOURNALISM
Concentrated study in special areas of journalism. May be repeated with change of topic.

CMM 440 BROADCAST NEWS
Study of the process and practice of news gathering and writing for radio and television. Course includes research, analysis, writing and editing news and features, as well as legal and ethical concerns of broadcast news. Studio fee. **Prerequisite(s):** CMM 330, 342.
CMM 442 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 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 MANAGEMENT
Survey of the leadership/management roles and responsibilities of broadcasting, cable television and corporate media enterprises.
Prerequisite(s): CMM 340.

CMM 449 TOPICS IN ELECTRONIC MEDIA
Concentrated study in special areas of electronic media production, criticism, and management. May be repeated once with change of topic. Depending on topic, prerequisites may be imposed.

CMM 452 PUBLIC DISCOURSE AND CRITICISM
Examination of the foundations of the field of communication. Major focus on the development of rhetorical theory with attention to rhetorical analysis and criticism.

CMM 460 PUBLIC RELATIONS WRITING
Study, development and application of public relations strategies. Emphasis on strategically effective, factually accurate and grammatically sound written communications for organizational and mass audiences.
Prerequisite(s): CMM 330, 360.

CMM 461 PUBLIC RELATIONS CAMPAIGNS
Students plan and carry out a public relations program for an established professional organization, work out solutions to communication and public relations problems, and prepare written campaign materials and handbooks.
Prerequisite(s): CMM 330, 360, 460; senior standing.

CMM 469 TOPICS IN PUBLIC RELATIONS
A concentrated study in specific areas of public relations. Development of specialized projects. May be repeated once with change of topics.
Prerequisite(s): CMM 360 or permission of instructor.

CMM 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 PROJECT
Second of two courses leading to the selection, design, investigation and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program in the University Honors Program with permission of the program director and 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 498 COMMUNICATION INTERNSHIP
1 - 6
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, (111 or 112), 113, 201, 202, 330; permission of department chairperson.

CMM 499  **SPECIAL TOPICS IN COMMUNICATION**  3-6
Concentrated study in specific areas of speech communication. May be repeated once with change of topic.

CMS 316  **INTERCULTURAL COMMUNICATION**  3
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
Introduction to the main topics in the field of global communication. Emphasis on comparative mass media and current issues in global communication. Will not satisfy humanities requirement.

CMS 415  **WOMEN AND COMMUNICATION**  3
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.

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The Department of Computer Science offers two programs leading to the Bachelor of Science in computer science, and in computer information systems. Both programs have the same introductory core sequence of computer science courses. The main differences in the programs are in the mathematics and science requirements and in the application emphases.

Computer information systems: This program emphasizes computer science concepts with particular attention to systems analysis and design, computer communications, and applications in one of the concentration areas listed in the description of the program requirements.

Computer science: Computer science is the study of algorithms and their implementation in the environment of computer hardware. It includes the study of data structures, software design, programming languages, and computer elements and architecture. A student entering this program is expected to be able to take calculus and non-remedial English. A transfer student must ordinarily be in good standing and have a cumulative average of at least 2.5 based on a scale of 4. Each student must take appropriate upper-level electives to ensure depth in at least three of the core subject areas of data structures, software design, programming language concepts and architecture as arranged with the advisor and department chair.

Computer science and computer information systems majors are required to attain grades of C- or better in CPS 150, 151 and 350.

A minor in computer science consists of twenty semester hours. A minor in computer information systems consists of twenty-three semester hours.

Faculty
Dale Courte, Chairperson
Professors Emeriti: Kester, Lang, Schoen, Winslow
Associate Professors: Buckley, Courte, Gowda, Seitzer, Smith, Srinathan
Assistant Professors: Perugini, Yao
Lecturer: Sanyal

Majors/Minors

Bachelor of Science with a minor in Computer Information Systems (CIS)

Sem. Hrs.

Computer Science
CPS 150, 151, 242, 250, 310, 312, 341, 346, 350 29
Select four additional courses (CPS 343 and above) 12

Concentration: An approved minor, or the following courses:
ACC 207, 208
ECO 203, 204
MGT 301
MKT (300 or 301) 15-27

Breadth Requirement
Natural Sciences 1 41-50

1 Sem. Hrs.
Mathematics\textsuperscript{1}  
MTH 148, 149, 367

Social and Behavioral Sciences\textsuperscript{1}  

Humanities\textsuperscript{1}  

Philosophy and Religious Studies (includes PHL 319)\textsuperscript{1}  

\begin{align*}
\text{Communication Competencies} & \quad 0-9 \\
\text{Introduction to the University: ASI 150} & \quad 0-1 \\
\text{General Education courses/academic electives to total at least} & \quad 120
\end{align*}

\textsuperscript{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)

\begin{center}
\begin{tabular}{ll}
\textbf{Computer Science} & \textbf{Sem. Hrs.} \\
CPS 150, 151, 242, 250, 341, 346, 350, 387 & 26 \\
Select six additional courses at 300-level or above. & 18 \\
\end{tabular}
\end{center}

Natural Sciences  

Breadth Requirement  

Natural Sciences (select one grouping of courses from the following):  

\begin{itemize}
\item BIO 151-151L, 152-152L  
\item CHM 123-123L, 124-124L  
\item GEO 115-115L, 116-116L  
\item PHY 206, 207, 210L, 211L
\end{itemize}

Select two additional courses acceptable for Science or Engineering majors

Mathematics/Computer Science  

MTH 168, 169, 218, 367

\textsuperscript{1} (CPS 353\textsuperscript{1} or MTH 310)

Social and Behavioral Sciences  

Humanities  

Philosophy and Religious Studies (including PHL 319)  

Communication Competencies  

Humanities  

\begin{align*}
\text{General Education courses/academic electives to total at least} & \quad 120
\end{align*}

\textsuperscript{1}CPS 353 will not count towards major requirement.

Minor in Computer Information Systems (CIS)

\begin{center}
\begin{tabular}{ll}
\textbf{Computer Information Systems} & \textbf{Sem. Hrs.} \\
CPS 150, 151, 242, 310, 312 & 17 \\
Select two additional courses (320-level or above) & 6 \\
\end{tabular}
\end{center}

Minor in Computer Science (CPS)

\begin{center}
\begin{tabular}{ll}
\textbf{Computer Science} & \textbf{Sem. Hrs.} \\
CPS 150, 151, 350 & 11 \\
Select three additional courses (320-level or above, excludes CPS 437) & 9 \\
\end{tabular}
\end{center}
CPS 107  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  INTRODUCTION TO PERSONAL COMPUTERS
Emphasis on use of operating system, particularly file organization, and applications: word processor, spreadsheet, database and presentation software.

CPS 130  INTRODUCTION TO ENGINEERING PROGRAMMING
Introduction to fundamentals of programming using the language C, including algorithms and control structures, with applications drawn from engineering. Intended for students in electrical engineering.
Prerequisite(s): EGR 102.

CPS 132  COMPUTER PROGRAMMING FOR ENGINEERING AND SCIENCE
Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Calculus-based computer solutions of problems from science and engineering using C++.
Corequisite(s): MTH 168.

CPS 144  INTRODUCTION TO COMPUTER PROGRAMMING
Fundamentals of computer programming including algorithms, program structure, library routines, debugging, and program verification. Computer solutions of problems from social sciences using a suitable compiler language such as Visual Basic.

CPS 150  ALGORITHMS AND PROGRAMMING I

CPS 151  ALGORITHMS AND PROGRAMMING II
Continuation of CPS 150. Emphasis on program design, development and style, string processing, data structures, program modularity, and abstract data type, using a compiler language.
Prerequisite(s): CPS 150.

CPS 225  PROGRAMMING FOR BUSINESS SYSTEMS
Process of software development for business system implementation. Fundamental programming concepts including program design, documentation, development and testing of computer solutions of business problems using C++. Intended for students majoring in MIS.
Prerequisite(s): MIS 175.

CPS 242  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  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  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
Methodologies for producing software, software development life cycles, top-down approach, data flow diagram, data dictionary, mini-specifications, in/output design, E-R diagrams, normalization, Introduction to object oriented analysis.  
Prerequisite(s): CPS 151 or 225.

CPS 312  SYSTEMS DESIGN
Structured design, tools of structured design, coupling and cohesion of modules, transform and transaction analyses, packaging, optimization, data-oriented and object oriented design methodologies, automated design tools. 
Prerequisite(s): CPS 310.

CPS 341  DISCRETE STRUCTURES
Logic and proofs, sets and counting, Boolean algebra, graph theory, directed graphs, mathematical machines, formal languages and grammars. 
Prerequisite(s): CPS 150.

CPS 342  COMPARATIVE LANGUAGES
Language design issues, formal syntax specification, data types and storage methods, activation records and procedural object oriented, functional, and logic programming paradigms. 
Prerequisite(s): CPS 350.

CPS 346  OPERATING SYSTEMS I
Semaphores, conditions, monitors, and kernels. Concurrent programming, interrupts, memory, and process management. Design and implementation of multithreaded and distributed system components using concurrent languages. 
Prerequisite(s): CPS 250, 350.

CPS 350  DATA STRUCTURES AND ALGORITHMS
Advanced concepts of linear data structures, stacks, queues, and abstract data types. Basic and advanced concepts of trees, graphs, hash tables, heaps, algorithm design and analysis techniques. 
Prerequisite(s): CPS 151.

CPS 353  NUMERICAL METHODS I
Study of the algorithms of numerical mathematics with emphasis on interpolation, the solution of nonlinear equations, and linear systems of equations including matrix methods; analysis of errors associated with the algorithms.  
Prerequisite(s): (CPS 132 or 150); MTH 169.

CPS 354  NUMERICAL METHODS II
Study of the algorithms of numerical mathematics with emphasis on functional approximation, numerical differentiation and integration, numerical solution of ordinary differential equations and boundary value problems; analysis of errors associated with the algorithms. 
Prerequisite(s): CPS 353.

CPS 387  COMPUTER SYSTEM DESIGN I
Study of the elements of computer design. Design of combinatorial and sequential logic circuits using current integrated circuit devices. Discussion of encoders, decoders, registers, counters, etc. as applied to design and use of control, arithmetic, logic, and storage units. Instruction set, addressing modes and CPU design. Laboratory experiments with these devices. 
Prerequisite(s): CPS 250, 341.
Detailed analysis of a specific microcomputer programmed in machine, assembler, and a higher-level language. Discussion of interfacing with devices such as displays, terminals, and other computers. Experiments with such interfacing in the laboratory.

**Prerequisite(s):** CPS 387.

### CPS 411 MANAGEMENT INFORMATION SYSTEMS

The management information systems environment. The theory, technology, development of information systems. Emphasis on integration of information systems for decision support and other management information requirements.

**Prerequisite(s):** CPS 310.

### CPS 415 SOFTWARE TESTING

A detailed examination of the software testing process and its role in the software lifecycle. Topics include functional testing, structural testing, methods for designing, generating and evaluating test data, coverage hierarchies, theoretical and practical limitations of testing, testability measures, regression testing, and specialized testing such as methods for testing object oriented software, graphical user interfaces.

**Prerequisite(s):** (CPS 310 or 418); CPS 341, 350.

### CPS 418 SOFTWARE ENGINEERING

A thorough examination of modern software methodologies, of the managerial and technological skills essential to the design and construction of high-quality software, and of the productivity and human factors in software development.

**Prerequisite(s):** CPS 350.

### CPS 420 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, 350.

### CPS 422 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 418.

### CPS 424 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 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 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 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, 385.

CPS 444 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, 350.

CPS 445 SYSTEMS PROGRAMMING II
A continuation of CPS 444, with emphasis on the application of the topics discussed.
Prerequisite(s): CPS 444.

CPS 446 OPERATING SYSTEMS II
Design and implementation of a multi-user operating system, including concurrent processes, usage of monitors and kernels, process and device scheduling, virtual memory with paging, process synchronization and communication, input and output spooler, file systems, reliability and protection, interrupts, distributed system concepts.
Prerequisite(s): CPS 346.

CPS 455 NUMERICAL ANALYSIS I
Error analysis, mathematical development of functional approximation including interpolation, quadrature, numerical differentiation, solution of ordinary differential equations.
Prerequisite(s): CPS 353.

CPS 456 NUMERICAL ANALYSIS II
Mathematical development of the method of least squares, minimax approximation, solution of partial differential equations, applications.
Prerequisite(s): CPS 455.

CPS 460 COMPUTER GRAPHICS
Introduction to graphics devices and software graphic primitives (points, lines, characters), two-dimensional transformations, clipping, survey of display devices and methods. Graphic input devices, representation of curves and surface in space.
Prerequisite(s): CPS 350.

CPS 470 DATA COMMUNICATION
Principles of telecommunications hardware and software. Analysis of communication protocol layers with respect to performance, error handling, and control functions. Review of troubleshooting techniques currently in use.
Prerequisite(s): CPS 350.

CPS 472 COMPUTER NETWORKING
Prerequisite(s): CPS 470.

CPS 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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 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**
Basic concepts and techniques of intelligent systems. Emphasis on representations, problem solving, search strategies, expert systems, mVgic systems, and AI programming. Design and implementation of AI applications.

**Prerequisite(s):** CPS 350.

**CPS 481 ADVANCED ARTIFICIAL INTELLIGENCE**
An examination of several advanced sub-disciplines of Artificial Intelligence including areas such as speech recognition, planning, machine learning, advanced multiple agent systems and related topics. An exploration of underlying theoretical issues as well as the status of current problems and applications.

**Prerequisite(s):** CPS 480.

**CPS 482 AUTOMATA THEORY**
Finite automata, sequential machines, survey of formal languages, introduction to computability, recursive functions, and Turing machines.

**Prerequisite(s):** CPS 341.

**CPS 496 COOPERATIVE EDUCATION**
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**
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 IN (NAMED AREA)**
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)**
Lectures or laboratory work in such areas as advanced artificial intelligence, computer architecture, information retrieval, microprogramming, multiprogramming techniques, numerical analysis, graphics, data communications, parallel processing, software development, distributed computing, multimedia computing. By arrangement. May be taken more than once.

**Prerequisite(s):** Permission of department chairperson.
College of Arts and Sciences
(CJS) Criminal Justice Studies (Collapse Description)

The Bachelor of Arts with a major in criminal justice studies, is a broadly structured interdisciplinary 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.

Faculty

Arthur J. Jipson, Director

Additional faculty who teach in the criminal justice studies program include several social sciences (sociology, psychology, political science, social work): Apollo (CJS/Sociology), Backer (Sociology), Cassiman (Social Work), Davis-Berman (Social Work), Donnelly (Sociology), Forbis (Sociology), Ingram (Political Science), Majka, L. (Sociology), Majka, T. (Sociology), Neeley (Political Science), Pierce (Political Science), Reeb (Psychology), Renzetti (Sociology).

Majors/Minors (Collapse All)

Bachelor of Arts with a major in Criminal Justice Studies (Option A) (CJS)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice Studies</td>
<td>36</td>
</tr>
<tr>
<td>CJS 101, 207, 447</td>
<td>9-10</td>
</tr>
<tr>
<td>SOC 305</td>
<td>3</td>
</tr>
<tr>
<td>Behavior (select two)</td>
<td>6</td>
</tr>
<tr>
<td>PSY 363, 461</td>
<td></td>
</tr>
<tr>
<td>SOC 325, 327, 410</td>
<td></td>
</tr>
<tr>
<td>SWK 325</td>
<td></td>
</tr>
<tr>
<td>Institutions (select two)</td>
<td>6</td>
</tr>
<tr>
<td>CJS 303</td>
<td></td>
</tr>
<tr>
<td>POL 303, 305, 360</td>
<td></td>
</tr>
<tr>
<td>SOC 323</td>
<td></td>
</tr>
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</table>
### Liberal Studies Curriculum

#### Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
<td>9</td>
</tr>
<tr>
<td>ENG 316, (370 or 372 or 474)</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)$^3$</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

#### Communication Competencies

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
</tr>
</tbody>
</table>

#### General Education courses/academic electives to total at least

124

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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.

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### Bachelor of Arts with a major in Criminal Justice Studies (Option B) (CJS)

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criminal Justice Studies</strong>$^{1,2}$</td>
<td>21</td>
</tr>
<tr>
<td>CJS 207$^3$, 447</td>
<td>6</td>
</tr>
<tr>
<td>SOC 305</td>
<td>3</td>
</tr>
<tr>
<td>Behavior (select one)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 363, 461</td>
<td></td>
</tr>
<tr>
<td>SOC 325, 327, 410</td>
<td></td>
</tr>
<tr>
<td>SWK 325</td>
<td></td>
</tr>
<tr>
<td>Institutions (select one)</td>
<td>3</td>
</tr>
<tr>
<td>CJS 303</td>
<td></td>
</tr>
<tr>
<td>POL 303, 305, 360</td>
<td></td>
</tr>
<tr>
<td>SOC 323</td>
<td></td>
</tr>
<tr>
<td>SWK 305</td>
<td></td>
</tr>
<tr>
<td>Law (select one)</td>
<td>3</td>
</tr>
<tr>
<td>CJS 305, 315</td>
<td></td>
</tr>
<tr>
<td>POL 301, 411, 450</td>
<td></td>
</tr>
<tr>
<td>SOC 326</td>
<td></td>
</tr>
<tr>
<td>Social Structure (select one)</td>
<td>3</td>
</tr>
<tr>
<td>CJS 322, 336</td>
<td></td>
</tr>
</tbody>
</table>
SOC 328, 339, 351

Liberal Studies Curriculum

Humanities and Fine Arts

| Philosophy and Religious Studies | 12 |
| History                           | 6  |
| Literature: English or Foreign Language | 3 |
| Creative and Performing Arts      | 3  |
| Foreign Language and/or Additional Arts and/or Humanities | 9 |
| ENG 318, (370 or 372 or 474)      |    |

Social Sciences                      | 12 |
Mathematics (excludes MTH 102, 204, 205) | 3  |
Natural Sciences                     | 11 |

Communication Competencies           | 0-9 |
General Education courses/academic electives to total at least | 60 |

1To be admitted as a major in the program under Option B, a transfer student must have received an accredited associate degree in corrections, law enforcement, police administration, police science, or a similar field of criminal justice and must have a 2.5 cumulative grade-point average on a 4.0 grading system. For criminal justice studies majors who have completed the basic requirements for an accredited two-year criminal justice degree, sixty semester hours beyond the associate degree is suggested, which includes a minimum of twenty-one semester hours in the program. The Liberal Studies Curriculum is required for all criminal justice studies transfer majors in addition to the baccalaureate degree requirements if they were not included in the candidates' associate degree programs.

2Internships and Independent Studies may be taken in CJS, POL, PSY, and SOC that have a criminal justice studies emphasis. No more than 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 hours required for a CJS interdisciplinary major in the Option B, transfer program sequence. They are not to be used as substitute courses for those listed in the areas of behavior, institutions, law and/or social structure, unless approved in advance by the director of the Criminal Justice Studies program and the College of Arts and Sciences.

3CJS 207, Research Methods in Criminal Justice Studies, require as a prerequisite MTH 207 or PSY 216 or SOC 308. Neither PSY 216 nor SOC 308 fills the three semester hours mathematics requirements for graduation. May substitute SOC 208, POL 207, PSY 217 for CJS 207.

4To be considered a viable candidate for graduation, a student must have completed a minimum of 124 semester hours with accepted transfer credits.

Minor in Criminal Justice Studies (CJS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJS 101</td>
<td>INTRODUCTION TO CRIMINAL JUSTICE STUDIES</td>
<td>3-4</td>
</tr>
</tbody>
</table>

One course from each of the four areas involving behavior, institutions, law, and social structure.

Courses (Collapse All Courses)
CJS 207 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 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
The administration of correctional institutions and other detention facilities with emphasis on probation and parole systems to include the rehabilitation and treatment of the incarcerated with reference to correctional law cases.

CJS 305 CRIMINAL LAW
Principles of criminal liability, preparation of case materials, court procedures, and case disposition.

CJS 315 CRIMINAL PROCEDURE
Fundamentals of criminal procedure: arrest, search, and seizure; interrogation, constitutional limitations upon state and federal rules of criminal procedure.
Prerequisite(s): A course in criminal law.

CJS 322 POLICING AND SOCIETY
Analyzes the history of policing in society and assesses the social and political forces that are correlated with both the rise of formal policing and the variety of structures law enforcement agencies have assumed. Reviews the primary functions of policing in American society and examines those issues affecting federal, state, county, municipal and private policing.

CJS 336 COMPARATIVE CRIMINAL JUSTICE SYSTEMS
Survey of cross-cultural uniformities and diversities in law-enforcement agencies, correctional systems, and the courts in selected countries.
Prerequisite(s): An introductory course in criminal justice.

CJS 399 SPECIAL TOPICS IN CRIMINAL JUSTICE
An extensive examination of a current topic affecting the criminal justice system and its law enforcement, corrections or judicial components. May be repeated to a maximum of three semester hours when the topic changes.

CJS 440 INDEPENDENT STUDY
Directed study and research on selected topics of significant academic publications in law enforcement and criminal justice.
Prerequisite(s): An introductory CJS course; permission of instructor.

CJS 447 SENIOR SEMINAR IN CRIMINAL JUSTICE STUDIES
Seminar to identify and discuss the contemporary issues in justice administration. Topics to be assigned by instructor and presented for class discussion by students.

CJS 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

CJS 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

**CJS 495  INTERNSHIP IN CRIMINAL JUSTICE I**
Supervised experience solely in a civilian capacity in a criminal justice or law-enforcement agency. Open to pre-service criminal justice studies majors only; in-service students do not qualify. Students who enroll for internship credit are not given a stipend. Credit granted only under Grading Option Two.

**Prerequisite(s):** 2.5 cumulative grade-point average; sophomore status; permission of program director.

**CJS 496  INTERNSHIP IN CRIMINAL JUSTICE II**
Continuation of CJS 495.

**CJS 497  SERVICE LEARNING EXPERIENCE**
Supervised community research or service experience that complements a specific upper division course in Criminal Justice Studies. No more than 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).
School of Business Administration
(ECO) Economics and Finance  (Collapse Description)

The Department of Economics and Finance offers majors in business economics and in finance for students in the School of Business Administration. The department also offers majors in economics and in applied mathematical economics for students in the College of Arts and Sciences (search these majors to view their requirements.) Minors in economics, business economics, and finance are available to all students.

Faculty
John Rapp, Chairperson
Professors: Caporale, Chen, Frasca, Rapp
Associate Professors: Gustafson, Mohan, Poitras, Ruggiero, Sauer, Wang
Assistant Professors: Collier, Zhang
Lecturers: Douglas, John, Shimmin

Sub-Categories / Concentrations / Focus Areas
Business Economics  Finance

Courses  (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introduction to consumer and producer behavior in a market economy, demand and supply, pricing and firm behavior under perfect and imperfect competition, and the distribution of income. Discussion of current topics in microeconomics may be included. If credit is earned for ECO 203, it may not be earned for ECO 300.</td>
<td></td>
</tr>
<tr>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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. If credit is earned for ECO 204, it may not be earned for ECO 300.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> ECO 203 recommended.</td>
<td></td>
</tr>
<tr>
<td>ECO 300</td>
<td>PRINCIPLES OF ECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introductory, calculus enhanced analysis of consumer and producer behavior in a market economy, demand and supply, consumer choice theory, pricing and firm behavior under perfect and imperfect competition, game theory, the macro-economy, the determination of gross domestic product, employment, inflation, and the interest rate and the effect of government policy. If credit is earned for ECO 300, it may not be earned for ECO 203 or ECO 204.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> (MTH 168; engineering major) or permission of department chairperson.</td>
<td></td>
</tr>
<tr>
<td>ECO 310</td>
<td>ECONOMICS OF THE ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to the economics of the global environment including an analysis of market failure as a cause of environmental degradation. Topics covered include cost-benefits analysis, criteria for public investment, regulation of the environment, and the sustainable global environment.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> ECO 203 or 300.</td>
<td></td>
</tr>
</tbody>
</table>
ECO 340  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 or 300.

ECO 346  INTERMEDIATE MICROECONOMIC ANALYSIS
Analysis of the theory of consumer behavior, production theory, equilibrium of the firm, price determination in various market structures, distribution of income, allocation of resources, and welfare economics. May not get credit for both ECO 346 and ECO 340.
Prerequisite(s): ECO 203 or 300.

ECO 347  INTERMEDIATE MACROECONOMIC ANALYSIS
National income accounting and the determination of the level of income and employment; classical, Keynesian, and post-Keynesian models; private, government, and foreign sectors; theories of inflation and economic growth. May not get credit for both ECO 346 and ECO 340.
Prerequisite(s): ECO 203 or 300; ECO 203 recommended.

ECO 390  ANTITRUST ECONOMICS
Study of how economic analysis has been applied in the interpretation of the antitrust statutes. Examines major anti-trust laws and relevant case law; reviews economic theories of market behavior.
Prerequisite(s): ECO 203 or 300.

ECO 410  BUSINESS AND ECONOMIC FORECASTING
Forecasting techniques, including ARIMA time series models, econometric models, moving averages, exponential smoothing, and time series decomposition, are used to forecast business and economic variables. Data sources, selection of appropriate forecasting tools and models, and evaluation of forecast results are studied.
Prerequisite(s): (ECO 203, 204) or ECO 300; Statistics (DSC 211 or MTH 207 or MTH 367 or MTH 412).

ECO 415  GAME THEORY WITH BUSINESS APPLICATIONS
Introductory course in strategic decision making; provides a thorough discussion of the basic techniques of applied game theory and of systematic thinking in making business decisions. Among the topics covered with applications to business are equilibrium strategies, understanding situations involving conflict and cooperation, auction design and bidding strategy, and bargaining and negotiations.
Prerequisite(s): ECO 203 or 300.

ECO 441  ECONOMETRICS
Training in the art of making economic measurements from empirical data using regression analysis as the principle tool; use of computer software to estimate and test regression equations; interpretation of results using statistical inference.
Prerequisite(s): ((ECO 203, 204) or ECO 300; differential calculus and basic statistics) or permission of instructor.

ECO 442  MONEY AND BANKING
Principles of money and monetary systems; commercial banking and the role of the Federal Reserve System; monetary theory and policy; the mechanism of international payments.
Prerequisite(s): ECO 203, 204) or ECO 300.

ECO 445  PUBLIC FINANCE
The economic aspects of government finance at the local, state, and especially the national level; the behavioral effects of various taxes, efficiency in spending, the changing role of the U.S. government, fiscal policy, and intergovernmental revenue and expenditure programs; emphasis on relating analytical tools to current developments.
Prerequisite(s): (ECO 203, 204) or ECO 300.

ECO 460  ECONOMIC DEVELOPMENT AND GROWTH
Study of various dynamic economic theories of growth and structural change; the role of particular factors of production and related noneconomic variables in the development process, primarily, though not exclusively, of Third World nations.

**Prerequisite(s):** (ECO 203, 204) or ECO 300.

**ECO 461** INTERNATIONAL ECONOMICS

Major issues surrounding international trade and finance, the economic interdependence of nations and businesses, essential theoretical and empirical tools necessary to monitor and analyze international economic phenomena, and the application of these tools to contemporary business problems and issues.

**Prerequisite(s):** (ECO 203, 204) or ECO 300; ECO 346 recommended.

**ECO 471** LABOR ECONOMICS

Theory of labor supply and demand, human capital theory, and the process by which wages are determined in various factor markets; applications to topics of unemployment, unions, migration, discrimination, and skill differentials.

**Prerequisite(s):** (ECO 203, 204) or ECO 300.

**ECO 480** SPORTS ECONOMICS

The application of economic analysis to the sports industry. Examines demand and efficiency in the product market; the labor market for professional athletes and mechanisms for restricting competition in that market; problems in achieving an efficient allocation of resources in the sports industry.

**Prerequisite(s):** (ECO 203 or 300); (DSC 211 or MTH 207) or equivalent.

**ECO 485** URBAN AND REGIONAL ECONOMICS

Treatment of certain theoretical concepts such as location theory and theories of land use and land rent; an economic interpretation for the existence of cities; applying economic analysis to the problems of traffic congestion, pollution, race, poverty, and urban sprawl.

**Prerequisite(s):** (ECO 203 or 300); (DSC 211 or MTH 207); ECO 346 recommended.

**ECO 488** 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 or 300.

**ECO 490** SENIOR SEMINAR IN APPLIED ECONOMICS

Economic analysis applied in an area of topical interest chosen by the instructor; includes the application of theoretical, mathematical, and statistical methods mastered in previous economics courses. This capstone course provides students an opportunity to extend their proficiency in economic analysis through application and discussion in a small group setting.

**Prerequisite(s):** Twelve semester hours in Economics.

**ECO 491** HONORS THESIS

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**ECO 492** HONORS THESIS

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**ECO 494** SEMINAR
Subject varies from time to time. May be taken more than once if topic changes. Prerequisites to be announced.

ECO 496  COOPERATIVE EDUCATION
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Does not count toward economics major. Permission of chairperson required. Economics or Business Economics majors only.
Prerequisite(s): Permission of department chairperson.

ECO 497  INTERNSHIP FOR GENERAL ELECTIVE CREDIT
Practical work experience associated with career development and career exploration relating to the student's major. Permission of the department chair or designee required. Does not replace economics courses for the economics major. Economics or Business Economics majors only.
Prerequisite(s): Forty-five semester hours of credit.

ECO 498  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.

FIN 250  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  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 207 or 301); (ECO 203 or 300); junior standing.

FIN 310  INVESTMENT CENTER PEER MENTOR
Members of the Center for Portfolio Management and Security Analysis Staff mentor peers in effectively utilizing the various software and database package resources within the Center for Portfolio Management and Security Analysis and assist in a range of developmental programs. Requires permission of the CFPM director. Does not count toward the finance major. Grading option 2.
Prerequisite(s): Permission of Center for Portfolio Management.

FIN 321  FINANCING ENTREPRENEURIAL VENTURES
Focuses on financial aspects of starting, growing, and harvesting entrepreneurial ventures. Includes emphasis placed on how common financing deals are structured, common financing pitfalls, and various legal documentation used to consummate financial transactions. Same as MGT 321.
Prerequisite(s): FIN 301 or MGT 320; junior standing.

FIN 330  INSURANCE AND RISK MANAGEMENT
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  PRINCIPLES OF REAL ESTATE
Survey of the 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".
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>FIN 360</td>
<td>INVESTMENTS</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> FIN 301 with minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>FIN 371</td>
<td>FINANCIAL MARKETS AND INSTITUTIONS</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> FIN 301 with minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>FIN 401</td>
<td>ADVANCED FINANCIAL ANALYSIS</td>
<td>3</td>
<td>Advanced study of current developments in financial planning, acquisition of funds, and asset management valuation; policy strategy and techniques in financial decision making. <strong>Prerequisite(s):</strong> FIN 301 with minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>FIN 402</td>
<td>MERGERS, ACQUISITIONS, CAPITAL RESTRUCTURING AND CORPORATE GOVERNANCE</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> FIN 301, 360.</td>
</tr>
<tr>
<td>FIN 410</td>
<td>INVESTMENT CENTER OPERATING COMMITTEE</td>
<td>1</td>
<td>Members of the Center for Portfolio Management and Security Analysis Operating Committee provide leadership within the CFPM structure. Responsible for achieving assigned unit objectives, managing a team, and taking a leadership position for a range of center initiatives and projects that directly impact the effective implementation of the Center's overall strategic objectives. Requires permission of the CFPM director. Does not count toward the finance major. Grading option 1. <strong>Prerequisite(s):</strong> Permission of Center for Portfolio Management.</td>
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<tr>
<td>FIN 430</td>
<td>SHORT-TERM FINANCIAL MANAGEMENT</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> FIN 301; (FIN 360 or 401).</td>
</tr>
<tr>
<td>FIN 450</td>
<td>INTERNATIONAL BUSINESS FINANCE</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> FIN 301 with minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>FIN 460</td>
<td>PORTFOLIO MANAGEMENT AND SECURITY ANALYSIS</td>
<td>3</td>
<td>Advanced valuation theory and security analysis; portfolio construction, evaluation, and management. <strong>Prerequisite(s):</strong> FIN 360.</td>
</tr>
<tr>
<td>FIN 460L</td>
<td>PORTFOLIO MANAGEMENT LAB</td>
<td>1</td>
<td>Provide analyst support for the Seminar in Investments course and the Flyer Investments team. Requires previous or concurrent enrollment in FIN 460 and instructor permission. Does not count toward the finance major. Grading option 2. <strong>Prerequisite(s):</strong> FIN 460.</td>
</tr>
<tr>
<td>FIN 470</td>
<td>FIXED INCOME SECURITIES</td>
<td>3</td>
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</table>
Introduction to the analytical/computational techniques for pricing fixed income securities, interest rate derivatives, and implementing effective portfolio strategies to control interest rate risk and enhance return.  
**Prerequisite(s):** FIN 360 or 371.

FIN 471 MANAGEMENT OF FINANCIAL INSTITUTIONS  
Integrated and comprehensive analysis of financial institutions that include depository institutions, insurance companies, securities firms, and investment companies.  
**Prerequisite(s):** FIN 371.

FIN 475 COMMERCIAL BANK MANAGEMENT  
Explores the environment in which banks must operate, the financial statements of banks, and a thorough study of bank management topics which include: asset-liability management, the investment portfolio, sources of funds, and the loan portfolio.  
**Prerequisite(s):** FIN 301; (FIN 360 or 371).

FIN 479 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):** Permission of department chairperson.

FIN 480 OPTIONS AND FUTURES MARKETS  
Study of options, futures, and other derivatives fundamentals, trading strategies, hedging, speculation, and arbitrating, pricing theories, and market regulations.  
**Prerequisite(s):** FIN 301; (FIN 360 or 371).

FIN 485 ENERGY MARKETS PORTFOLIO MANAGEMENT  
Study of energy market portfolio skills, physical natural gas and power, natural gas pricing and risk management power pricing, oil products pricing and hedging, weather derivatives pricing and risk management, and credit derivatives.  
**Prerequisite(s):** Permission of department chairperson.

FIN 489L TRADING LAB  
Focuses on five areas and crowd psychology, maintaining trading journals. Career management resources for finding position in trading, risk management, structuring, operations, scheduling, and analysis.  
**Prerequisite(s):** Permission of department chairperson.

FIN 490 SEMINAR  
Subject varies from time to time. May be taken more than once if the topic changes.

FIN 491 HONORS THESIS  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

FIN 492 HONORS THESIS  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

FIN 493 SEMINAR IN INVESTMENTS  
Application of investment theory and techniques in a real-world setting. Students manage a funded portfolio in terms of establishing objectives, selecting securities to buy (sell), and evaluating portfolio performance. Emphasis is placed upon attempting to identify undervalued common stocks. Admission to the course is limited and must be approved by the instructor.  
**Prerequisite(s):** FIN 360; FIN 460 highly recommended.
FIN 493L SEMINAR IN INVESTMENTS LAB
Provide leadership in facilitating the supporting analyst role for the Seminar in Investments course. Requires previous or concurrent enrollment in FIN 493 and instructor permission. Does not count toward the finance major. Grading option 1.

FIN 494 SEMINAR IN COMMODITIES, DERIVATIVES, AND EQUITIES TRADING
Application of derivatives trading strategies and financial data mining techniques based on equity, futures, options, and swaps in a real-world setting. Simulated derivatives trading using professional trading platform and strategies. Admission to the course is limited. 
Prerequisite(s): FIN 480; permission of instructor.

FIN 495a CORPORATE CAPSTONE COURSE
Integrates all prior corporate related courses through cases, analysis of current events, and a project related to local organizations. This course should be taken during the student's last academic year. Prerequisite(s): Permission of Instructor.

FIN 495b INSTITUTIONS CAPSTONE
Integrates all prior institutions related courses through cases, analysis of current events, and a project related to local organizations. This course should be taken during the student's last academic year. Prerequisite(s): Permission of Instructor.

FIN 496 COOPERATIVE EDUCATION
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Does not count toward finance major. Finance majors only. Prerequisite(s): Permission of department chairperson.

FIN 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT
Practical work experience associated with career development and career exploration relating to the student's major. Permission of department chair or designee required. Does not replace finance courses for the finance major. Finance majors only. Prerequisite(s): Forty-five semester hours of credit.

FIN 498 INDEPENDENT STUDY IN FINANCE
Directed readings and research in selected fields of finance. The number of semester hours will depend on the amount of work chosen. The course will involve periodic discussions with other students and faculty in the program. May be taken more than once for additional credit. Prerequisite(s): 3.0 GPA in Finance; minimum of nine semester hours in Finance; nomination by faculty; permission of department chairperson.
School of Engineering

Electrical and Computer Engineering

(Collapse Description)

The Department of Electrical and Computer Engineering offers two ABET accredited undergraduate programs leading to the Bachelor of Electrical Engineering and the Bachelor of Science in Computer Engineering. The department offers masters and doctoral degrees in electrical engineering and is closely coupled to the graduate program in electro-optics where both master's and doctoral degrees are offered. 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.

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 computer design. An extensive laboratory experience is integrated with the classroom work to assure that the student develops a working knowledge of the fundamentals. Upper level courses integrate the knowledge base with current technology and computational tools resulting in a graduate capable of making a contribution to the engineering profession by either entering the workforce or pursuing a graduate education.

The computer engineering curriculum is designed to provide an understanding of basic computer engineering principles with emphasis on the development of problem solving skills. The software aspects of computer engineering are introduced in the first year, while hardware and hardware-software integration topics are emphasized starting in the sophomore year. An extensive hands-on laboratory experience is integrated with the classroom work to assure that the student develops a working knowledge of the fundamentals.

Faculty
Don Moon, Chairperson
Distinguished Service Professor: Schmidt
Professors Emeriti: Evers, Kee, Rogers, Scarpino, Thiele, Williamson
Professors: Banerjee, Chatterjee, Duncan, Hardie, Moon, Subramanyam, Weber
Associate Professors: Daniels, Loomis, Ordonez, Penno, Smari
Assistant Professor: Balster
Adjunct Professors: Berrera, Gauder, Guliants, Repperger

Majors/Minors (Collapse All)

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<th>Major/Minor Name</th>
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### First-Year

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<th>Course Code</th>
<th>Course Name</th>
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<td>CHM 123</td>
<td>GENERAL CHEMISTRY</td>
<td>3</td>
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<tr>
<td>CPS 150</td>
<td>ALGORITHMS AND PROGRAMMING I</td>
<td>4</td>
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<tr>
<td>ECE 101</td>
<td>INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING</td>
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<tr>
<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
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<td>EGR 103</td>
<td>ENGINEERING INNOVATION</td>
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<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101)</td>
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<td>COLLEGE COMPOSITION II (ENG 102)</td>
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<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
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<td>ENGLISH SCHOLARS' SEMINAR (ENG 198)</td>
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<td>HST 103 or 198</td>
<td>THE WEST AND THE WORLD (HST 103)</td>
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<td>HISTORY SCHOLARS' SEMINAR (HST 198)</td>
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<tr>
<td>MTH 168</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
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<td>MTH 169</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
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<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<td>PHY 206</td>
<td>GENERAL PHYSICS I - MECHANICS</td>
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<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
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### Sophomore-Year

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<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
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<td>ECE 201L</td>
<td>CIRCUIT ANALYSIS LABORATORY</td>
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<td>ECE 203</td>
<td>INTRODUCTION TO MATLAB</td>
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<td>EGR 201</td>
<td>ENGINEERING MECHANICS</td>
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<td>EGR 203</td>
<td>ELECTRICAL AND ELECTRONIC CIRCUITS</td>
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<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
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<td>PHY 210L</td>
<td>GENERAL PHYSICS LABORATORY I</td>
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<td>ECE 204-204L</td>
<td>ELECTRONIC DEVICES (ECE 204)</td>
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<td>ECE 215-215L</td>
<td>INTRODUCTION TO DIGITAL SYSTEMS (ECE 215)</td>
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<td>EGR 202</td>
<td>ENGINEERING THERMODYNAMICS</td>
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<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
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<td>PHY 232</td>
<td>THE PHYSICS OF WAVES</td>
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<td>Junior-Year</td>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
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<td>INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
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<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
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<td>ECE 303-303L</td>
<td>SIGNALS AND SYSTEMS (ECE 303)</td>
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<td>ECE 314-314L</td>
<td>FUNDAMENTALS OF COMPUTER ARCHITECTURE (ECE 314)</td>
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<td>ECE 332</td>
<td>ELECTROMAGNETICS</td>
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<td>MTH 343</td>
<td>MATHEMATICS FOR ELECTRICAL AND COMPUTER ENGINEERS</td>
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<td>Second-Term</td>
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<td>INTERVIEWING</td>
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<td>ELECTRONIC SYSTEMS (ECE 304)</td>
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<td>ECE 333</td>
<td>APPLIED ELECTROMAGNETICS</td>
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<td>ECE 334</td>
<td>DISCRETE SIGNALS AND SYSTEMS</td>
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<td>ECE 340</td>
<td>ENGINEERING PROBABILITY AND RANDOM PROCESSES</td>
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<td>ENGINEERING ETHICS (PHL 316)</td>
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<td>INFORMATION ETHICS (PHL 319)</td>
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<td>ECE 401-401L</td>
<td>COMMUNICATION SYSTEMS (ECE 401)</td>
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<td>ECE 415</td>
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<td>ECE 431L</td>
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<td>ECE 432L</td>
<td>MULTIDISCIPLINARY DESIGN II</td>
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<td>ECE 433</td>
<td>PROJECT MANAGEMENT AND INNOVATION</td>
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<td>General Education electives</td>
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</tr>
</tbody>
</table>
Technical electives

1 Select from list approved by the Department of Electrical and Computer Engineering.

Bachelor of Science in Computer Engineering (CPE)

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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Sophomore-Year

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<td>ECE 215-215L INTRODUCTION TO DIGITAL SYSTEMS (ECE 215) or DIGITAL SYSTEMS LABORATORY (ECE 215L)</td>
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<td>EGR 202 ENGINEERING THERMODYNAMICS</td>
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<td>MTH 219 APPLIED DIFFERENTIAL EQUATIONS</td>
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Junior-Year

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<td>ECE 314-314L FUNDAMENTALS OF COMPUTER ARCHITECTURE (ECE 314) or FUNDAMENTALS OF COMPUTER ARCHITECTURE LAB (ECE 314L)</td>
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<td>ECE 340 ENGINEERING PROBABILITY AND RANDOM PROCESSES</td>
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<td>MTH 343 MATHEMATICS FOR ELECTRICAL AND COMPUTER ENGINEERS</td>
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General Education elective | 3 |
Second-Term
- CMM 110: GROUP DECISION MAKING 1
- CPS 346: OPERATING SYSTEMS I 3
- ECE 304-304L: ELECTRONIC SYSTEMS (ECE 304)
  ELECTRONIC SYSTEMS LABORATORY (ECE 304L) 4
- ECE 444: ADVANCED DIGITAL DESIGN 3
- PHL 319: INFORMATION ETHICS 3
- PHY 232: THE PHYSICS OF WAVES 3

Senior-Year
First-Term
- CMM 111 or 112: INFORMATIVE PUBLIC SPEAKING
  (CMM 111) 1
- CPS 444: SYSTEMS PROGRAMMING I 3
- ECE 334: DISCRETE SIGNALS AND SYSTEMS 3
- ECE 431L: MULTIDISCIPLINARY DESIGN I 1
- ECE 449: COMPUTER SYSTEMS ENGINEERING 3
- General Education elective 3
- Technical elective 3

Second-Term
- CMM 113: INTERVIEWING 1
- ECE 432L: MULTIDISCIPLINARY DESIGN II 3
- ECE 433: PROJECT MANAGEMENT AND INNOVATION 1
- Computer Science elective 3
- General Education electives 6
- Technical elective 3

1 Select from list approved by the Department of Electrical and Computer Engineering.

Minor in Computer Systems (COS)

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)**

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<th>Sem. Hrs.</th>
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**Computer Systems (MEE majors)**

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<td>ECE 444</td>
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</table>

\*ECE-323 satisfies the ECE-201 prerequisite requirement for this course.
Minor in Signals and Systems (SAS)

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.

**Signals and Systems**

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<thead>
<tr>
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<td>INTRODUCTION TO MATLAB PROGRAMMING</td>
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<td>SIGNALS AND SYSTEMS (ECE 303)</td>
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<td>CONTROL SYSTEMS (ECE 415)</td>
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<td>SIGNAL PROCESSING (ECE 445)</td>
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<td>ELECTRICAL AND ELECTRONIC CIRCUITS</td>
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1ECE-323L can be substituted for ECE 201L and EGR 203.

**Courses (Collapse All Courses)**

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<td>MULTIDISCIPLINARY RESEARCH AND INNOVATION LABORATORY</td>
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<tr>
<td>ECE 203</td>
<td>INTRODUCTION TO MATLAB PROGRAMMING</td>
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</table>
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 150) or equivalent.

---

**ECE 204**  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.

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**ECE 204L**  ELECTRONIC DEVICES LABORATORY

Laboratory investigation of electronic devices: diodes, bipolar junction transistors, field-effect transistors and operational amplifiers.

**Corequisite(s):** ECE 204.

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**ECE 211**  PROBABILITY AND STATISTICS

Introduction to the topics of random variables, probability density functions, cumulative distribution functions, mean values and moments.

**Prerequisite(s):** MTH 168.

---

**ECE 215**  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 LABORATORY

Laboratory investigation of digital logic circuits and systems covered in ECE 215. Logic gate characteristics; combinational logic design and analysis; latches and flip-flops; synchronous and asynchronous sequential logic; simple digital systems. Experiments include design and analysis of digital systems using breadboarding, FPGA boards, modeling and simulation tools, hardware description languages, and logic synthesis tools.

**Prerequisite(s):** ECE 201, 201L.

**Corequisite(s):** ECE 215.

---

**ECE 298**  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.

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**ECE 303**  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 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.
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 ELECTRONIC SYSTEMS LABORATORY**

Design, construction and verification of multistage feedback amplifiers, passive and active filters, and oscillators.

**Prerequisite(s):** ECE 303.

**Corequisite(s):** ECE 304.

---

**ECE 314 FUNDAMENTALS OF COMPUTER ARCHITECTURE**

Study of computer systems organization, representation of data and instructions, instruction set architecture, processor and control units, memory devices and hierarchy, I/O devices and interfacing peripherals, high- to low-level language mapping, system simulation and implementation, applications and practical problems.

**Prerequisite(s):** (CPS 132 or 150); ECE 215.

**Corequisite(s):** ECE 314L.

---

**ECE 314L FUNDAMENTALS OF COMPUTER ARCHITECTURE LAB**

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 323 BASIC ELECTRONIC CIRCUITS**

Analysis and design of passive and active electrical and electronic circuits using time-domain and frequency-domain methods. Includes amplifiers, switches, and other types of electronic circuits. Lectures will be reinforced with practical and computer exercises. For chemical, civil, environmental and mechanical engineering students.

**Prerequisite(s):** MTH 218; PHY 207.

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**ECE 323L BASIC ELECTRONIC CIRCUITS LABORATORY**

Construction and debugging of electronic circuits. Includes introduction to electronic measurement methods. Covers passive and active elements. This class is intended as a visualization and reinforcement of the material in ECE 323 for non-electrical engineers.

**Corequisite(s):** ECE 323.

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**ECE 332 ELECTROMAGNETICS**

Study of vector calculus, electro- and magneto-statics, Maxwell's equations, and electromagnetic plane waves and their reflection and transmission from discontinuities.

**Prerequisite(s):** PHY 232.

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**ECE 333 APPLIED ELECTROMAGNETICS**

Electromagnetic theory applied to problems in the areas of waveguides, radiation, electro-optics and electromagnetic interference and electromagnetic compatibility.

**Prerequisite(s):** ECE 332.

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**ECE 334 DISCRETE SIGNALS AND SYSTEMS**

Introduction to discrete signals and systems including sampling and reconstruction of continuous signals, digital filters, frequency analysis, the z-transform, and the discrete Fourier transform.

**Prerequisite(s):** ECE 303.

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**ECE 340 ENGINEERING PROBABILITY AND RANDOM PROCESSES**

Axiomatic probability, derived probability relationships, conditional probability, statistical independence, total probability and Bayes' Theorem, counting techniques, common random variables and their distribution functions,
transformations of random variables, moments, autocorrelation, power spectral density, cross correlation and covariance, random processes through linear and nonlinear systems, linear regression, and engineering decision strategies.

**Prerequisite(s):** MTH 218.

**ECE 398 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 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 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 ELECTRO-MECHANICAL DEVICES**

Properties and theory of electro-mechanical devices: nonlinear electromagnetic actuators; rotating machine analysis; field and circuit concepts; rotating fields; direct current, synchronous, and induction machines; special-purpose machines; and fractional horsepower machines.

**Prerequisite(s):** ECE 202, 332.

**ECE 415 CONTROL SYSTEMS**

Study of mathematical models for control systems and analysis of performance characteristics and stability. Design topics include pole-placement, root locus, and frequency domain techniques.

**Prerequisite(s):** ECE 303.

**ECE 431L 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, 314.

**ECE 432L MULTIDISCIPLINARY DESIGN II**

Combination of lecture and laboratory experiences. The focus of the course 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, 431L, 444; ELE majors: ECE 340, 431L, (ECE 401 or 415).

**ECE 433 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 PHYSICAL ELECTRONICS
Introduction to wave mechanics, electron ballistics, theory of metals and semiconductors, electron emission, space charge flow, and modern electron devices.
Prerequisite(s): MTH 219; PHY 232.

ECE 441 INTEGRATED CIRCUIT ELECTRONICS
Integrated circuit design, construction and verification including the study of biasing, multistage differential and analog power amplification, and computer assisted design tools for "on-chip" design and layout.
Prerequisite(s): ECE 304.

ECE 442 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 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 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
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 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 304.

ECE 447 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 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 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
Project-oriented laboratory applying engineering skills in the design, development, and demonstration of electrical and electronic systems.

Prerequisite(s): Permission of project advisor.

ECE 498 MULTIDISCIPLINARY RESEARCH AND INNOVATION LABORATORY 1-6
Students participate in 1.) selection and design, 2.) investigation and data collection, 3.) analysis, and 4.) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

ECE 499 SPECIAL PROBLEMS IN ELECTRICAL AND COMPUTER ENGINEERING 1-6
Particular assignments to be arranged and approved by the department chairperson.
School of Engineering
(ENM) Engineering Management  (Collapse Description)

Majors/Minors  (Collapse All)
Major/Minor Name
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.

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<td>ENM 539 SYSTEMS ENGR/PROJECT MANAGEMENT</td>
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<td>ENM 582 ENGR ORGANIZATIONAL DEVELOPMENT</td>
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<td>or ISE 421 or MSC 521 INTRO TO OPERATIONS RESEARCH</td>
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<td>ISE 465 or ENM 565 RELIABILITY ENGINEERING</td>
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<td>MSC 572 SYSTEM SIMULATION</td>
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1 ENM 500 (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.

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<td>MSC 523</td>
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</table>

1. ENM 500 (or ISE 300 or MTH 367) is a corequisite.
2. ENM 500 (or ISE 300 or MTH 367) is a prerequisite.
3. MSC 521 (or ISE 421) is a prerequisite.
School of Engineering

Engineering Technology (Collapse Description)

The School of Engineering also offers a Bachelor of Science in Engineering Technology. The programs in which the degree is offered are 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.

Faculty
Scott Segalewitz, Chairperson of the Department of Engineering Technology

Sub-Categories / Concentrations / Focus Areas

Electronic and Computer Engineering Technology
Global Manufacturing Systems Engineering Technology
Industrial Engineering Technology
Mechanical Engineering Technology

Majors/Minors

Major/Minor Name

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.

Sem. Hrs.

15

ECT 110 ELECTRICAL CIRCUITS I 3
ECT 224 DIGITAL COMPUTER FUNDAMENTALS 3
ECT 361 PROGRAMMING STRUCTURES 3
IET 317 INDUSTRIAL ECONOMIC AND FINANCIAL ANALYSIS 3
IET 408 LEAN MANAGEMENT METHODS 3
IET 415 MANAGEMENT OF GLOBAL TECHNICAL ORGANIZATIONS 3
IET 435 HUMAN FACTORS 3
MCT 220 STATICS AND DYNAMICS 3

Select one course from:

MCT 204-204L MATERIALS AND PROCESSES (MFG 204)
MATERIALS AND PROCESSES LABORATORY (MFG 204L) 4
Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ECT 110</td>
<td>ELECTRICAL CIRCUITS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: current, voltage, resistance, power, series and parallel circuits, capacitance, magnetic circuits, and inductance.</td>
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<tr>
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<td><strong>Corequisite(s):</strong> ECT 110L.</td>
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<tr>
<td>ECT 110L</td>
<td>ELECTRICAL CIRCUITS I LABORATORY</td>
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<tr>
<td></td>
<td>Experiments in single source DC and AC circuits to accompany ECT 110. Three laboratory hours per week.</td>
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<td></td>
<td><strong>Corequisite(s):</strong> ECT 110.</td>
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<tr>
<td>ECT 120</td>
<td>ELECTRICAL CIRCUITS II</td>
<td>3</td>
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<tr>
<td></td>
<td>Practical concepts of DC and AC circuits: reactance, impedance, phase, circuit analysis, power factor, resonance, filters, and transformers. Circuit calculations using vectors and complex algebra.</td>
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<td><strong>Prerequisite(s):</strong> ECT 110.</td>
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<tr>
<td>ECT 206</td>
<td>ELECTRON DEVICES I</td>
<td>3</td>
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<tr>
<td></td>
<td>Fundamentals of semiconductor diodes, transistors (bipolar and field effect), amplifiers, biasing and small signal analysis.</td>
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<td><strong>Prerequisite(s):</strong> ECT 120.</td>
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<tr>
<td>ECT 206L</td>
<td>ELECTRON DEVICES I LABORATORY</td>
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<td>To accompany ECT 206. Three hours of laboratory a week.</td>
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<tr>
<td>ECT 224</td>
<td>DIGITAL COMPUTER FUNDAMENTALS</td>
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<tr>
<td></td>
<td>Fundamental theory and techniques of electronic data processing to include binary arithmetic, switching theory (Boolean algebra), and basic circuitry (gates, adders, registers, and memory).</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> ECT 110.</td>
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<tr>
<td>ECT 224L</td>
<td>DIGITAL COMPUTER FUNDAMENTALS LABORATORY</td>
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<td></td>
<td>To accompany ECT 224. Three hours of laboratory a week.</td>
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<tr>
<td>ECT 306</td>
<td>ELECTRON DEVICES II</td>
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<tr>
<td></td>
<td>Fundamentals of integrated circuits, operational amplifiers, transistors, photoelectric devices, silicon-controlled rectifiers, and their associated circuits.</td>
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<td><strong>Prerequisite(s):</strong> ECT 206.</td>
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<tr>
<td>ECT 306L</td>
<td>ELECTRON DEVICES II LABORATORY</td>
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<td>To accompany ECT 306. Three hours of laboratory a week.</td>
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<tr>
<td>ECT 328</td>
<td>ELECTRONIC COMMUNICATIONS</td>
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<tr>
<td></td>
<td>Study of communication circuits including amplifiers, oscillators, modulators, demodulators, antennas, waveguides, and microwave devices.</td>
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<td><strong>Prerequisite(s):</strong> ECT 306.</td>
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<tr>
<td>ECT 328L</td>
<td>ELECTRONIC COMMUNICATIONS LABORATORY</td>
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<td>To accompany ECT 328. Three hours of laboratory a week.</td>
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<tr>
<td>ECT 357</td>
<td>MICROPROCESSORS I</td>
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<td></td>
<td>Study of microprocessor architecture, hardware, software, applications, and development tools.</td>
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<td><strong>Prerequisite(s):</strong> ECT 224.</td>
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<td>ECT 358</td>
<td>MICROPROCESSORS II</td>
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<tr>
<td></td>
<td>Advanced microprocessors study including development tools and software with regards to interfacing equipment in applications.</td>
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<td><strong>Prerequisite(s):</strong> ECT 357, 361.</td>
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<td><strong>Corequisite(s):</strong> ECT 358L.</td>
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</table>
ECT 356L  MICROPROCESSORS II LABORATORY
To accompany ECT 358. Emphasis on microcomputer programming. Three hours of laboratory a week.
Prerequisite(s): ECT 357.

ECT 361  PROGRAMMING STRUCTURES
The study of programming language concepts. Emphasis on the C language and its application to microcomputer hardware and software development.
Prerequisite(s): SET 153L.

ECT 362  CONCEPTS AND APPLICATIONS OF COMPUTER OPERATING SYSTEMS
Introduction to the fundamentals and applications of computer operating systems and the interaction of hardware and software. Operating systems for large-scale, minicomputer, and microcomputers introduced through case studies.
Prerequisite(s): ECT 357, 361.

ECT 400  SELECTED TOPICS
Investigation and discussion of current technical topics in electronic and computer engineering technology. May be taken more than once.
Prerequisite(s): Permission of department chairperson.

ECT 408  DATA ACQUISITION AND MEASUREMENTS
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 361 or MCT 221); ENG 102.

ECT 451  ADVANCED INSTRUMENTATION
Advanced study of microcomputer controlled sensors and actuators in a variety of applications.
Prerequisite(s): ECT 408.

ECT 452  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, 408.

ECT 459  MICROPROCESSOR SYSTEMS DESIGN
Study of complete mechatronic designs with an emphasis on development systems, operating system integration, interfacing, and control strategies.
Prerequisite(s): ECT 357, 358.

ECT 460  ADVANCED MICROPROCESSOR SYSTEMS
Study of advanced micro-processor families and their applications to systems, including single and multi-processor design.
Prerequisite(s): ECT 357.

ECT 465  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  MICROCOMPUTER ARCHITECTURE
To develop an understanding of the basic hardware architecture of industry standard microcomputers including CPUs, standard busses, memory, mass storage devices, Systems-on-a-Chip and their implementation, I/O devices, and network interfaces. Study of architecture of recent microprocessors.
Prerequisite(s): ECT 357 or equivalent.

ECT 490  SENIOR PROJECT
The design, construction and presentation of an original project. The project may be individual or part of an interdisciplinary engineering technology team project. Written and oral reports.
Prerequisite(s): CMM 110, (CMM 111 or 112); ECT 408; IET 323; MTH 138; senior status.
IET 230 WORK MEASUREMENT
Fundamentals of work simplification, motion economy, and productivity improvement using the techniques of time-and-motion study. Setting of labor standards using the techniques of stop watch, pre-determined time, standard data, and work sampling.
Prerequisite(s): MTH 137.
Corequisite(s): SET 153L.

IET 230L WORK MEASUREMENT LABORATORY
The application of real-world time-and-motion-study techniques such as operation process, worker-machine, and assembly charts. Calculations for time standards, production efficiency, line balance, cost reduction, labor, and equipment. A written and oral report on a team project. Three hours of laboratory each week.
Prerequisite(s): MTH 137.
Corequisite(s): IET 230; SET 153L.

IET 316 QUANTITATIVE ANALYSIS
Introduction of the mathematical techniques used to support decision making and managerial analysis. Probability theory, decision theory, linear programming, queuing theory, differential and integral calculus, and differential equations.
Prerequisite(s): MTH 138 or 168; MTH 207; SET 153L.

IET 317 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; SET 153L.

IET 318 STATISTICAL PROCESS CONTROL
Statistics and probability theory applied to produce control charts (x-bar, R, s, p, u, and c) to monitor processes. Interpretation and application of these charts. Problem solving techniques, Pareto analysis, and modern quality management techniques.
Prerequisite(s): MTH 207; SET 153L.

IET 319 QUALITY IMPROVEMENT METHODS
Study of problem-solving methodologies and techniques. Team development. Students will learn to use Pareto diagrams, force field analysis, cause and effect diagrams, process mapping, and other problem-solving tools. Quality costs, product liability, and ethics are also covered.
Prerequisite(s): IET 318; SET 153L.

IET 320 QUALITY ASSURANCE TECHNIQUES
Students will be exposed to a variety of current quality assurance topics that companies use to improve quality, increase productivity, and reduce costs. Topics include: total preventive maintenance, quality function deployment, reliability engineering, design of experiments, and sample size selection.
Prerequisite(s): IET 318; MTH 207; SET 153L.

IET 321 QUALITY MANAGEMENT
Provides students with an understanding of managing a total quality environment to improve quality, increase productivity and reduce costs. An introduction to Deming, Juran, and others. Total Quality Management Implementation strategies, requirements of ISO 9000, QS 9000, and the Malcolm Baldridge award will be covered.
Prerequisite(s): IET 318; MTH 207; SET 153L.

IET 323 PROJECT MANAGEMENT
Study of the structure, techniques, and application of project management including project proposals, project plans, decision making, styles of management, and communications. Semester team project with written and oral presentations.
Prerequisite(s): SET 153L.

IET 332 FACILITIES LAYOUT DESIGN
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 111.
A self-paced research course. Preparation of a documented written research project on an engineering technology subject. May not be taken more than once. Prerequisites: Junior or senior status; permission of program director.

**Prerequisite(s):** Junior or senior status; permission of department chairperson.

**IET 408 LEAN MANAGEMENT METHODS**
Study of the principles and current practices of optimizing production using Lean Management concepts. 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 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 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, ethics, 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; SET 153L.

**IET 420 INDUSTRIAL AND ENVIRONMENTAL SAFETY**
Application of safety techniques and principles to identify and correct unsafe situations and practices. Study of system safety, failure modes and effects analysis, fault tree analysis, preliminary hazard analysis, hazardous materials and practices, OSHA, health and personal protection.

**IET 423 THE IET IN SERVICE ORGANIZATIONS**
Case studies, articles, guest speakers, and projects to provide insight into how industrial engineering technology skills and training can be applied to service industries including hospitals, banks, and eating and retailing establishments.

**Prerequisite(s):** IET major; junior status.

**IET 425 ELEMENTS OF COST CONTROL**
Survey of the methods of breakdown and cost analysis of labor, material, and overhead used in manufacturing and service organizations. Basic financial and cost accounting including balance sheets, income statements, change of financial condition, ratio analysis, and Activity-Based Costing.

**Prerequisite(s):** MTH 137; SET 153L.

**IET 435 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 490 SENIOR PROJECT**
Applications of IET principles to a real world project using student teams for analysis and productivity improvement. Students will manage a project, applying planning, scheduling, monitoring, and control techniques. Oral and written project proposals, status updates, and final reports presented by teams of students to the management of the sponsoring organizations.

**Prerequisite(s):** CMM 110, (CMM 111 or 112); IET 317, 323, 332, 408; MTH 138; senior status.

**MCT 110L TECHNICAL DRAWING AND CAD**
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 INTRODUCTION TO DESIGN**
Advanced topics of Computer Aided Design using three-dimensional, parametric, solid modeling software. Laboratory assignments involving the CAD software are completed through a series of individual and team design projects. Introduction to design requirements, conceptualization, and design decisions. Computer drafting topics such as...

**Prerequisite(s):** MCT 110L.

**MCT 220 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 MATERIALS**
Analysis and design of load-carrying members, considering stress, strain, and deflection. Study of direct tension, compression, and shear; torsion; shear and moment diagrams; bending; combined stress; analysis of columns; pressure vessels.

**Prerequisite(s):** MCT 220; MFG 204, 204L; MTH 137; SET 153L.

**MCT 231 FLUID MECHANICS**
Fluid properties, fluid statics including manometry, submerged surfaces, buoyancy and stability of floating bodies. The principles of fluid flow including Bernoulli’s and energy equations, energy losses, and pump power. Analysis and design of pipe line systems and open channels; pump selection.

**Prerequisite(s):** MTH 137; SET 153L.

**MCT 313 INDUSTRIAL MECHANISMS**
Design and analysis of linkages and cams. Graphical solutions to kinematics problems including the concepts of instantaneous motion and relative motion. Development and analysis of motion diagrams. Study of geometric features of gears and gear transmission systems.

**Prerequisite(s):** MCT 110L, 220; MTH 137; SET 153L.

**MCT 317 MACHINE DYNAMICS**
Principles of applied engineering mechanics as they relate to machines; static force analysis in both 2 and 3 dimensional systems, kinetics of machine components by the methods of force-mass-acceleration, work-energy, and impulse-momentum; machine balancing; introduction to mechanical vibrations.

**Prerequisite(s):** MCT 315; MTH 138.

**MCT 330 DESIGN OF MACHINE ELEMENTS**
Analytical design techniques used to evaluate machine elements; stress analysis, working stress, failure theories, fatigue failure; design methods for spur gears, shafts, keys and couplings, roller and journal bearings, and springs. Original design project.

**Prerequisite(s):** MCT 110L, 221; SET 153L.

**MCT 336 FLUID POWER**
Study of hydraulic and pneumatic fluid power components and systems used in industrial, mobile, and aerospace applications; standard symbols in circuit design; circuit analysis; specification for pumps, valves, cylinders, and circuits; hydraulic fluids; filtration; electric motors; system efficiencies; proportional control and electrohydraulic servo control systems; seals; fluid conductors; pneumatic components and systems. Library research project.

**Prerequisite(s):** MCT 221.

**Corequisite(s):** MCT 336L.

**MCT 336L FLUID POWER LABORATORY**
To accompany MCT 336. Evaluation of fluid power components: pressure, flow, RPM, sound level, current, voltage, power, torque, and time. Graphical design, computational analysis, assembly, and testing of typical circuits and systems. Testing of hydraulic fluids for viscosity, pour point, flash and fire point, specific gravity. Three hours of laboratory a week.

**MCT 342 THERMODYNAMICS**
Energy analysis of engineering systems using the concepts and laws of thermodynamics. The principles of the mechanical equivalent of heat, behavior of pure substances, use of thermodynamic property tables, and study of gas mixtures. Application of the Carnot cycle to both heat engines and reversed heat engines.

**Prerequisite(s):** MCT 231; MTH 138; SET 153L.

**MCT 400 SELECTED MECHANICAL TOPICS**
Investigations and discussion of current technical topics in mechanical engineering technology. Research report. May be taken more than once.

**Prerequisite(s):** Permission of department chairperson.
MGT 423  PRODUCT DEVELOPMENT
Synthesis of mechanical devices and systems. Emphasis on the integration of various machine elements into a single unit. Activities include design, scheduling, budgeting, purchasing, fabrication, assembly and performance testing of an original team project.
Prerequisite(s): MCT 330.

MGT 430  DESIGN OF FLUID POWER SYSTEMS
Energy efficiency; pressure drop determinations, variable volume pressure-compensated pumps, accumulators, proportional and electrohydraulic valves, cylinder design, hydraulic motor selection; circuit design, open and closed loop systems, power unit design; sizing of electric motors; use of industrial data and National Fluid Power Assn.-JIC design standards. Individual design project.
Prerequisite(s): MCT 336.

MGT 432  HEAT POWER
Applications of the principles of thermodynamic cycles. Analysis of energy transfer systems such as internal combustion and gas turbine engines. Power generation through steam cycles including reheat and regenerative cycles. Reversed heat engine cycles and vapor compression cycles used in heating and cooling.
Prerequisite(s): MCT 342; SET 153L.

MGT 438  HEAT TRANSFER
The principles of conduction, convection, and thermal radiation energy transfer. Conduction through series and parallel walls, pipes, and containers. Forced and free convection through films, thermal radiation of energy between surfaces, and the overall transfer of heat.
Prerequisite(s): MCT 231; SET 153L.

MGT 440  APPLIED VIBRATIONS
Free and forced vibration of single degree of freedom systems with and without damping. Industrial applications including reciprocating and rotating machinery, balancing, isolation, and noise reduction. Demonstrations of vibration sensors and instrumentation.
Prerequisite(s): MCT 317; SET 153L.

MGT 445  EXPERIMENTAL MECHANICS
The selection, application, and use of strain gages and strain gage rosettes. Transformation of stress and strain. Advanced mechanics of materials topics with empirical verification of theoretical predictions.
Prerequisite(s): MCT 221.

MGT 445L  EXPERIMENTAL MECHANICS LABORATORY
Installation of strain gauge rosettes. Experiments to determine the state of strain and stress in structures using strain gauges, photoelasticity, and brittle coatings. Vibration measurement using strain gauges, accelerometers, and motion transducers. Written and oral reports.

MGT 446  APPLIED FINITE ELEMENT MODELING
Introduction to the fundamentals of structural finite element modeling. Geometry creation, element types, material specification, problem solution and results postprocessing. Focus is placed on modeling techniques using commercially available software.
Prerequisite(s): MCT 221; SET 153L.

MGT 460  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 112); IET 323; MCT 317, 330; MTH 138; senior status.

MFG 108L  MANUFACTURING PROCESSES LABORATORY
Application of metal-cutting theory using single- and multiple-point cutting tools, basic metal removal process of toolroom and production machines. Experience on conventional milling machines, shapers, lathes, surface grinders, and drill presses. Three hours of laboratory a week.

MFG 204  MATERIALS AND PROCESSES
Chemical and physical properties of metals, ceramics, and polymers; casting processes; powdered metallurgy; metal forming; plastics processes. Oral and written presentation of a team case study.
Prerequisite(s): SET 153L.
Corequisite(s): MFG 204L.
M'G 204L MATERIALS AND PROCESSES LABORATORY
Testing of materials for tensile strength, impact and hardness properties, cooling curves and equilibrium diagram development, heat treating and hardenability curve determination, cold forming, plastics materials processing, micro polishing and metallography; visits to local industries. Three hours of laboratory a week.
Prerequisite(s): SET 153L.
Corequisite(s): MFG 204.

M'G 206L DIMENSIONAL METROLOGY
Theory and practice of precision measurement including the surface plate, angle and sine plates; surface texture and roundness; optical microscope and profile projector; mechanical and electronic gages; co-ordinate measuring machine; length standards and height gages; fixed and functional gages; sources of measurement error. Three hours of laboratory a week.
Prerequisite(s): MCT 110L; MTH 137.

M'G 208L GEOMETRIC DIMENSIONING AND TOLERANCING
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.

M'G 240 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, 204.

M'G 400 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.

M'G 424 ROBOTICS
Study of robotics including history, robot geometry, cost justification, end-effector (types, use, and design), sensors, and programming. Application of robots in industries. Robot programming and operation projects and end-effector design projects.
Prerequisite(s): MCT 220, 313; SET 153L.

M'G 427 CIM 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, 204; SET 153L.

M'G 431 CONTROLS FOR INDUSTRIAL AUTOMATION
Topics include: fundamentals of digital logic, pneumatic power, electromechanical sensors and actuators, pneumatic and electrical control circuit analysis and design, industry safety and design standards, concepts of mechatronics, programmable logic controllers, and networking communications.
Prerequisite(s): ECT 110; SET 153L.

M'G 432 PLASTICS, COMPOSITES, AND NANO MATERIALS AND PROCESSES
Introduction to the more common plastics, composites, and nano engineering materials and their properties. Study of processes including extrusion, injection molding, blow molding, compression and transfer molding, and forming. Topics on part and tooling design.
Prerequisite(s): CHM 123; MFG 204.

M'G 434 ROBOTICS AND COMPUTER NUMERICAL CONTROL
Programming of CNC turning and machining centers and industrial robots; application of CAM software to design and edit CNC and robot programs, edit programs, and display tool and motion paths. Parametric part programming concepts to produce complex surfaces. Programming of robotic devices.
Prerequisite(s): MCT 110L; MFG 108L; MTH 138; SET 153L.

M'G 435 ADVANCED NUMERICAL CONTROL
Instruction in the programming of complex, multi-axis CNC machines. Extended parametric programming. Programming language techniques.
Prerequisite(s): MFG 434.
MFG 438 SUSTAINABLE MANUFACTURING AND PRODUCT DESIGN
Design for the environment, sustainable manufacturing processes and business practices to support these topics are developed.
Prerequisite(s): (MFG 108L, 204, 204L) or permission of instructor.

MFG 490 SENIOR PROJECT
Study and research in a specific area that integrates major elements from previous design and manufacturing process courses, culminating in individual and/or group projects, technical reports, and presentations.
Prerequisite(s): CMM 110, (CMM 111 or 112); IET 323; MFG 108L, 240, 431; MTH 138; senior status.

SET 100 ENGINEERING TECHNOLOGY FIRST YEAR SEMINAR
A seminar for all engineering technology majors. Introduction to the University of Dayton, the School of Engineering, the Department of Engineering Technology, engineering technology programs and careers. Emphasizes professional ethics, critical thinking and communications, and team dynamics. Academic policies, academic planning, registration procedures, counseling and career placement services.

SET 101 ENRICHMENT WORKSHOP
A workshop structured to provide collaborative learning for first-year Engineering Technology students. Work will focus on math, chemistry and other first-year courses. Required of all first-year engineering technology students both semesters.

SET 153L TECHNICAL COMPUTATION LABORATORY
Introduction to applications and use of computers for engineers with concentration on spreadsheets, electronic communications, and object oriented programming using Visual Basic.

SET 198 RESEARCH AND INNOVATION LABORATORY
Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.
Prerequisite(s): Permission of department chairperson.

SET 298 RESEARCH AND INNOVATION LABORATORY
Students participate in 1) selection and design, 2) investigation and data collection, 3) analysis and 4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.
Prerequisite(s): Permission of department chairperson.

SET 300 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 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 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 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.
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**
Career planning for engineering technology majors. The job search process, résumé
preparation, the job interview, professional development. Required of all engineering
technology majors in the junior or senior year.
College of Arts and Sciences

(ENG) English  (Collapse Description)

The University requirement in English composition is satisfied by the completion of ENG 101-102, ENG 114, or ENG 198. Completing this requirement is a prerequisite for 200- and 300-level English courses. For placement information, see Reading and Writing General Competencies requirements in Section V. For additional details, consult the department chairperson or the director of writing programs.

Students majoring in English must complete at least 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 acquire teacher licensure in Integrated Language Arts through the E11A program. For details, consult the department chairperson.

The English department awards a writing certificate to students who achieve a 3.0 grade-point average in 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
Margaret M. Strain, Director of Graduate Studies
Thomas A. Wendorf, Director of Undergraduate Studies
Susan Trollinger, Director of Writing Programs
Professors Emeriti: August, Henninger, Labadie, H. Martin, Means, Murphy, Palumbo, Patrouch, Stockum
Professors: J. Farrelly, Kimbrough, K. Marre, Pici, Wihoot
Associate Professors: Bardine, Boehrlein, Carrillo, Hughes, Krummel, L. Marre, McCombe, Potter, Strain, Trollinger, Wendorf, Youngkin
Assistant Professors: Morgan, Ramnarayan, Slade, Szeghi, Vorachek, Walker
Lecturers: Adams, Biswas, Burnside, Casola, DeAloia, MacLeod, E. Martin, Sexton

Majors/Minors  (Collapse All)

Major/Minor Name
Bachelor of Arts with a major in English (ENG)

Sem. Hrs.

English

36

ENG (101-102 or 114 or 198), 300, 301, 302, 305, 382, (476 or 488 or 489)¹, 490

Select one writing course (300- or 400-level)

ENG electives

24-27

3

6-12

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12

History 6

Creative and Performing Arts 3

Foreign Language and/or Additional Arts and/or Humanities (excludes ENG courses) 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 3
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1ENG 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 who plan to pursue graduate study in rhetoric-related fields.

Minor in English (ENG)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of the processes of reading and writing aimed at the development and refinement of critical thinking skills, critical reading skills, and critical writing skills. Students must pass course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<tr>
<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
<td>3</td>
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<tr>
<td></td>
<td>Study of appropriate rhetorical structures and styles for analytic, synthetic, and argumentative essays. Practice in developing critical reading and writing skills with an emphasis on writing from sources. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> ENG 101.</td>
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</tr>
<tr>
<td>ENG 114</td>
<td>FRESHMAN WRITING SEMINAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A one-semester composition course for first-year students who show high proficiency. First term only. Open by permission only. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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</tr>
<tr>
<td>ENG 151</td>
<td>INTRODUCTION TO LITERATURE</td>
<td>3</td>
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<tr>
<td></td>
<td>A critical study of literary forms - fiction, drama, and poetry - representative of various eras and cultures. May be taken concurrently with ENG 102.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> ENG 101 or equivalent.</td>
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</tr>
<tr>
<td>ENG 198</td>
<td>ENGLISH SCHOLARS' SEMINAR</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and seminar discussion of selected literary masterworks and appropriate criticism thereof, with equal emphasis on composition. Open by permission only to first-year students in the Berry Scholars Program. Students must pass the course with a grade of &quot;C-&quot; or higher to satisfy the University requirement in general reading and writing competencies.</td>
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<tr>
<td>ENG 203</td>
<td>MAJOR BRITISH WRITERS</td>
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<td></td>
<td>Study of four or five writers representative of the principal periods in English literature.</td>
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<td><strong>Prerequisite(s):</strong> ENG 102 or equivalent.</td>
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<tr>
<td>ENG 204</td>
<td>MAJOR AMERICAN WRITERS</td>
<td>3</td>
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</tbody>
</table>

1In addition to the composition requirement.
Study of four or five writers representative of the principal periods in American literature.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 205 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 102 or equivalent.

**ENG 210 POETRY**
Study of representative examples of a major literary genre.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 230 TOPICS IN LITERATURE**
Exploration of varying approaches to the study of literature. Can be repeated under special circumstances.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 242 SOPHOMORE HONORS**
Seminar in which selected works from the literature of Western civilization are studied.

**ENG 272 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 102 or equivalent.

**ENG 282 INTRODUCTION TO WRITING POETRY**
A beginning course in analyzing and writing poetry.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 284 INTRODUCTION TO WRITING FICTION**
A beginning course in analyzing and writing short fiction.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 286 INTRODUCTION TO WRITING DRAMA**
A beginning course in analyzing and writing short plays.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 300 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 102 or equivalent.

**ENG 301 SURVEY OF EARLY ENGLISH LITERATURE**
Survey of English literature from the Medieval period to the end of the eighteenth century.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 302 SURVEY OF LATER ENGLISH LITERATURE**
Survey of English literature from the beginning of the Romantic period to the present.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 305 SURVEY OF AMERICAN LITERATURE**
Survey of American literature from the Colonial period to the present.

**Prerequisite(s):** ENG 102 or equivalent.

**ENG 306 SURVEY OF CONTINENTAL LITERATURE**
Survey of continental European literature from Homer to the present.

**Prerequisite(s):** ENG 102 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
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</thead>
<tbody>
<tr>
<td>ENG 308</td>
<td>INTERMEDIATE POETRY WORKSHOP</td>
<td>Intensive practice in the writing of poems.</td>
<td>ENG 282 or permission of department</td>
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<td>chairperson.</td>
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<tr>
<td>ENG 310</td>
<td>INTERMEDIATE FICTION WORKSHOP</td>
<td>Intensive practice in the writing of fiction.</td>
<td>ENG 284 or permission of department</td>
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<td>chairperson.</td>
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<tr>
<td>ENG 312</td>
<td>ADVANCED WRITING OF DRAMA</td>
<td>Intensive practice in the writing of plays.</td>
<td>ENG 286 or permission of department</td>
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<td>chairperson.</td>
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<tr>
<td>ENG 315</td>
<td>INTRODUCTION TO WRITING CREATIVE NONFICTION</td>
<td>Study, analysis, and writing of a number of creative nonfiction forms,</td>
<td>ENG 102 or equivalent.</td>
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<td>including memoir, personal essay, biography, opinion essay, and weblogs.</td>
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<td>Focus on writing process, rhetorical awareness, style, and voice in</td>
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<td>expressive writing.</td>
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<tr>
<td>ENG 316</td>
<td>ELEMENTS OF STYLE</td>
<td>Study of stylistic options available to all writers. Examination of and</td>
<td>ENG 102 or equivalent.</td>
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<td>practice in adapting writing style for various audiences and purposes,</td>
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<td>altering style to achieve desired effects, and developing a distinctive</td>
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<td>written voice.</td>
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<tr>
<td>ENG 317</td>
<td>CONTEMPORARY POETRY</td>
<td>Study of selected poems by recent writers.</td>
<td>ENG 102 or equivalent.</td>
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<tr>
<td>ENG 319</td>
<td>CONTEMPORARY FICTION</td>
<td>Study of selected novels and short fiction by recent writers.</td>
<td>ENG 102 or equivalent.</td>
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<tr>
<td>ENG 320</td>
<td>CONTEMPORARY DRAMA</td>
<td>Study of selected plays to illustrate major tendencies of modern drama.</td>
<td>ENG 102 or equivalent.</td>
</tr>
<tr>
<td>ENG 322</td>
<td>MASTERPIECES OF WORLD LITERATURE</td>
<td>Intensive study of major literary works representative of various cultures.</td>
<td>ENG 102 or equivalent.</td>
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<td>Works are studied in translation, although an English language work or two</td>
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<td>may be included for appropriate comparison.</td>
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<tr>
<td>ENG 323</td>
<td>LITERATURE OF THE CHRISTIAN TRADITION</td>
<td>A study of literary works that form part of the Christian religious</td>
<td>ENG 102 or equivalent.</td>
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<td>tradition.</td>
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<tr>
<td>ENG 324</td>
<td>THE NOVEL</td>
<td>A consideration of selected novels to illustrate various fictional modes.</td>
<td>ENG 102 or equivalent.</td>
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<tr>
<td>ENG 325</td>
<td>SCIENCE FICTION</td>
<td>Survey of science fiction with detailed analysis of selected novels and</td>
<td>ENG 102 or equivalent.</td>
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<td>short fiction.</td>
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<tr>
<td>ENG 326</td>
<td>SPORT AND LITERATURE</td>
<td>An historical approach to analyzing the function of sport in society and</td>
<td>ENG 102 or equivalent.</td>
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<td>literature, from Greek times to contemporary times.</td>
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<tr>
<td>ENG 327</td>
<td>STUDIES IN POPULAR FICTION</td>
<td>Analysis of selected artifacts of popular culture with reference to serious</td>
<td>ENG 102 or equivalent.</td>
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<td></td>
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<td>literature. May be repeated as topics change.</td>
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</tr>
</tbody>
</table>
ENG 328  AMERICAN NOBEL AUTHORS
Analysis and discussion of the works of several American Nobel Prize winners in the field of literature.
Prerequisite(s): ENG 102 or equivalent.

ENG 329  SHORT STORY
Study of the techniques employed in the writing of the short story. Analysis of various models of the short story.
Prerequisite(s): ENG 102 or equivalent.

ENG 330  DEVELOPMENT OF DRAMA
Study of the historical development of the drama from its beginnings to the nineteenth century. Analysis of plays from each significant period.
Prerequisite(s): ENG 102 or equivalent.

ENG 331  STUDIES IN FILM
Analysis of selected films to show developments in film technique or criticism.
Prerequisite(s): ENG 102 or equivalent.

ENG 332  STUDIES IN LITERATURE AND FILM
Studies in literary texts and the film treatments of those texts. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 333  IMAGES OF WOMEN IN LITERATURE
Examination of significant literary works that portray traditional images of women.
Prerequisite(s): ENG 102 or equivalent.

ENG 334  MODERN MEN--IMAGES
Critical examination of significant literary works that portray males in traditional and non-traditional roles.
Prerequisite(s): ENG 102 or equivalent.

ENG 335  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 102 or equivalent.

ENG 336  GENDER IN FICTION
Study of major works of American and British male and female authors from different periods, analyzing the authors, their principal characters, themes, and narrative technique as they reflect different aspects of the issue of gender in literature.
Prerequisite(s): ENG 102 or equivalent.

ENG 337  STUDIES IN FOLKLORE
Selected studies in American and/or world folklore. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 338  IMAGES OF BUSINESS
Examination of the modern world of work, the image of the business "professional," and the influence of organization on global society and values as these themes are revealed primarily in modern literature.
Prerequisite(s): ENG 102 or equivalent.

ENG 339  AMERICAN INDIAN LITERATURE
Study of American Indian writers and their oral and literary traditions. Emphasis on such issues as race, gender, and religion.
Prerequisite(s): ENG 102 or equivalent.

ENG 340  THE PRISON IN LITERATURE
Survey of prison literature from the rise of the modern prison in the late eighteenth century through the contemporary period.  
Prerequisite(s): ENG 102 or equivalent.

ENG 341  ASIAN AMERICAN LITERATURE
Study of Asian American writers and their literary traditions. Emphasis on issues of race, gender, and class.  
Prerequisite(s): ENG 102 or equivalent.

ENG 342  LITERATURE AND THE ENVIRONMENT
Examination of nature and environment in literature, focusing on literary representations of nature; nature writing; fiction and ecocriticism; the environment and the literary imagination.  
Prerequisite(s): ENG 102 or equivalent.

ENG 343  LITERATURE OF THE FIFTIES
A 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 102 or equivalent.

ENG 344  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 102 or equivalent.

ENG 345  COLONIAL AND POSTCOLONIAL LITERATURE
Examination of significant literary works that reveal the diversity of human cultures shaped by colonial and postcolonial contexts.  
Prerequisite(s): ENG 102 or equivalent.

ENG 346  MODERN IRISH LITERATURE
A consideration principally of the Irish literary revival of the late nineteenth and early twentieth centuries with appropriate background material.  
Prerequisite(s): ENG 102 or equivalent.

ENG 347  EUROPEAN LITERATURE OF ANTIQUITY
Study of significant works from the Old Testament and Greek, Roman, English, Irish, and/or Scandinavian writers.  
Prerequisite(s): ENG 102 or equivalent.

ENG 348  EUROPEAN LITERATURE OF THE MIDDLE AGES
Study of selected literary masterpieces of western civilization in the Middle Ages.  
Prerequisite(s): ENG 102 or equivalent.

ENG 349  LITERATURE OF THE RENAISSANCE
Study of selected literary masterpieces from England and the Continent that illustrate the culture and ideas of the Renaissance.  
Prerequisite(s): ENG 102 or equivalent.

ENG 350  LITERATURE OF THE ENLIGHTENMENT
Study of selected English and European literature from the Age of Reason.  
Prerequisite(s): ENG 102 or equivalent.

ENG 351  LITERATURE OF THE ROMANTIC AGE
Study of the Romantic Revolution as illustrated in representative writings of English and European authors.  
Prerequisite(s): ENG 102 or equivalent.

ENG 352  EUROPEAN LITERATURE OF THE NINETEENTH CENTURY
Study of representative masterpieces from the literature of England and the Continent during the nineteenth century.  
Prerequisite(s): ENG 102 or equivalent.

ENG 353  EUROPEAN LITERATURE OF THE EARLY TWENTIETH CENTURY
Study of significant English and European literature that illustrates the ideas and culture of the early modern period.  
**Prerequisite(s):** ENG 102 or equivalent.

ENG 358  CONTEMPORARY LITERATURE OF EUROPE  
Study of selected western European literature that illustrates the ideas and culture of the present age.  
**Prerequisite(s):** ENG 102 or equivalent.

ENG 362  SHAKESPEARE  
Study of selected plays and poems of Shakespeare.  
**Prerequisite(s):** ENG 102 or equivalent.

ENG 362L  SHAKESPEARE PERFORMANCE LABORATORY  
Study of Shakespearean performances through films, video tapes, and recordings. Three hours a week. Students in 362L must have already taken or be registered for ENG 362 or an equivalent Shakespeare course.  
**Corequisite(s):** ENG 362 or equivalent Shakespeare course.

ENG 363  SHAKESPEARE'S WORLDS  
A concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with HST 308.

ENG 370  REPORT 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 102 or equivalent; junior or senior standing.

ENG 371  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 102 or equivalent; junior or senior standing.

ENG 372  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 102 or equivalent; junior or senior standing.

ENG 373  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 102 or equivalent; junior or senior standing.

ENG 375  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 102 or equivalent.

ENG 376  TOPICS IN WRITING  
Analysis of and practice in specific forms of writing. May be repeated as forms change.  
**Prerequisite(s):** ENG 102 or equivalent.
ENG 379  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 102 or equivalent.

ENG 380  Studies in Literature
Study of special topics or themes in literature. May be repeated as topics change.
Prerequisite(s): ENG 102 or equivalent.

ENG 382  Mozart's Operas
An interdisciplinary survey of Mozart's operas - German and Italian, serious and comic. Class discussions will be supplemented by extensive listening and/or viewing of recorded performances and, when possible, attendance at live performances.

ENG 383  The 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 102 or equivalent.

ENG 384  Christianity and Modern Poetry
A 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 102 or equivalent.

ENG 385  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 102 or equivalent.

ENG 395  Junior 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.

ENG 405  Chaucer
Study of Chaucer's life, world, language, and literary achievement, concentrating on The Canterbury Tales (in Middle English).
Prerequisite(s): A 200- or 300-level English course.

ENG 407  Medieval English Literature
Study of the dominant types in the literature of England from the beginning to 1500.
Prerequisite(s): A 200- or 300-level English course.

ENG 410  Early Renaissance Literature
Survey of the literature of the sixteenth century from Thomas More to Sidney and Spenser.
Prerequisite(s): A 200- or 300-level English course.

ENG 414  Later Renaissance Literature
Survey of the literature of the early seventeenth century from Bacon, Jonson, and Donne to Marvell, exclusive of Milton.
Prerequisite(s): A 200- or 300-level English course.

ENG 431  Milton
Study of the major and minor poems and selected prose of Milton.
Prerequisite(s): A 200- or 300-level English course.

ENG 433  Studies in Neo-Classical Literature
Study of English literature from Dryden to Johnson. May be repeated as topics change.
Prerequisite(s): A 200- or 300-level English course.

ENG 438 ENGLISH ROMANTICISM
Study of the major poets and critics of the Romantic Age.
Prerequisite(s): A 200- or 300-level English course.

ENG 444 STUDIES IN NINETEENTH-CENTURY ENGLISH LITERATURE
Study of English literature in the nineteenth century. May be repeated as topics change.
Prerequisite(s): A 200- or 300-level English course.

ENG 448 TWENTIETH-CENTURY BRITISH LITERATURE
Study of significant developments in modern British literature.
Prerequisite(s): A 200- or 300-level English course.

ENG 451 AMERICAN ROMANTICISM
Study of significant developments in American literature of the mid-19th century.
Prerequisite(s): A 200- or 300-level English course.

ENG 453 AMERICAN REALISM AND NATURALISM
Study of representative writers from the post-Civil War period in American literature.
Prerequisite(s): A 200- or 300-level English course.

ENG 455 TWENTIETH-CENTURY AMERICAN LITERATURE
Study of significant developments in American literature of the twentieth century.
Prerequisite(s): A 200- or 300-level English course.

ENG 460 ADVANCED POETRY WORKSHOP
Intensive practice in writing of poetry and production of a chapbook.
Prerequisite(s): ENG 308.

ENG 462 ADVANCED FICTION WORKSHOP
Intensive practice in writing of fiction and production of a novella or short story cycle.
Prerequisite(s): ENG 310.

ENG 468 INTRODUCTION TO LINGUISTICS
Introduction to the basic concepts and procedures of general linguistics, including language description, history, variation, theory, and acquisition.
Prerequisite(s): A 200- or 300-level English course.

ENG 470 HISTORY OF ENGLISH
Study of stages in the development of the English language and of influences shaping its development from the beginning to the present.
Prerequisite(s): A 200- or 300-level English course.

ENG 472 THE STRUCTURE OF ENGLISH
Study of the grammatical structure of modern English from traditional and modern linguistic points of view.
Prerequisite(s): A 200- or 300-level English course.

ENG 474 ARGUMENTATION
Intensive study of argumentative writing. Theories and principles of argument and persuasion. Emphasis on formal arguments.
Prerequisite(s): ENG 102 or equivalent; junior or senior standing or permission of department chairperson.

ENG 476 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 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 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.

ENG 480  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  TOPICS IN ENGLISH STUDIES
Systematic study of a specialized topic in English Studies.
Prerequisite(s): A 200- or 300-level English course or permission of instructor.

ENG 482  MODERN POETRY
Concentrated, advanced study in the development of modern poetry, both English and American.
Prerequisite(s): A 200- or 300-level English course.

ENG 485  INTERNSHIP IN WRITING
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, 371, 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
Comparative critical reading of classical and modern theoretical texts and analysis of critical methodology.
Prerequisite(s): A 200- or 300-level English course.

ENG 489  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 316) or permission of instructor; junior or senior standing.

ENG 490  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, 301, 302, 305; (ENG 476 or 488).

ENG 495  SENIOR HONORS TUTORIAL
Independent directed study on special topics for selected students. May be repeated as topic or instructor changes.

Prerequisite(s): Permission of department chairperson.
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.

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, 204, 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.
College of Arts and Sciences
(GEO) Geology (Collapse Description)
Geology is the study of the Earth. It incorporates many aspects of our complex planet including its composition, structure, environment, dynamic and hazardous processes, and the development of life, continents and oceans through time. Geology plays a critical role in interpreting the Earth's long history of global change, and in predicting future environmental change.

The geology department offers two programs leading to 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 firm grounding in the fundamentals of earth science as well as an interdisciplinary curriculum including geology, biology, chemistry, and other allied science courses, reflecting the interdisciplinary nature of environmental concerns.

The geology department aims to prepare students for careers in the geological sciences. Graduates of the department are competitive for entry to graduate programs. Geology majors pursue careers in a wide range of settings including: state and federal geological agencies; geological consulting companies; natural resource exploration, development and management; museums; research laboratories; and education. Environmental geologists address critical needs of our society ranging from groundwater protection and water-supply development to the identification and assessment of natural hazards.

A minor in geology consists of twelve semester hours.

Faculty
Allen McGrew, Chairperson
Professor Emeritus: Ritter
Professors: Pair, Sandy
Associate Professors: Goldman, Koziol, A. McGrew
Assistant Professor: S. Wu
Visiting Assistant Professor: Haritashya

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Science with a major in Environmental Geology (EVG)

The following program, leading to the Bachelor of Science with a major in environmental geology, is designed to present students with the basic courses in the geological sciences as well as provide specific environmental geology courses. The program also requires additional related science courses.

<table>
<thead>
<tr>
<th>Geology</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>8</td>
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<tr>
<td>GEO 115-115L, 116-116L</td>
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<tr>
<td>Year 2</td>
<td>7</td>
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<tr>
<td>GEO 201-201L, 208</td>
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<td>Year 3</td>
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<td>GEO 301-301L, 307-307L, 310-310L</td>
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<tr>
<td>Year 4</td>
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<tr>
<td>GEO 308, 309-309L, 479L</td>
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<tr>
<td>GEO electives (select courses from)</td>
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</tbody>
</table>
Science electives (select courses from):
- CEE 312-312L, 390, 434-434L
- CHM 201-201L, 302, 313-313L, 341-341L
- CPS 132, 144
- MTH 218, 219, 367, 368

Breadth Requirement
Natural Sciences
- BIO 151 & 152
- CHM 123-123L, 124-124L
- PHY 206¹, 207¹
Mathematics, Computer Science
- MTH 168², 169²
Social and Behavioral Sciences
- Humanities
- Philosophy and Religious Studies

Communication Competencies
Introduction to the University: ASI 150

General Education courses/academic electives to total at least 120

¹May substitute PHY 201-202 with permission.
²May substitute MTH 148-149 or MTH 137, 138 & 149 with permission.

Bachelor of Science with a major in Geology (GEO)

<table>
<thead>
<tr>
<th>Geology</th>
<th>Sem Hrs.</th>
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<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td>GEO 115-115L, 116-116L</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>GEO 201-201L</td>
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<td>Year 3</td>
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<tr>
<td>GEO 301-301L, 307-307L</td>
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<tr>
<td>Year 4</td>
<td>18</td>
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<tr>
<td>GEO 303, 310-310L, 401-401L, 403-403L</td>
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</tr>
<tr>
<td>GEO electives (select courses from):</td>
<td>8</td>
</tr>
<tr>
<td>Science electives, with accompanying laboratories where applicable (select courses from):</td>
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<tr>
<td>BIO, CHM, CPS, GEO, MTH, PHY, Engineering¹</td>
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</tr>
</tbody>
</table>

Breadth Requirement
Natural Sciences
- CHM 123-123L, 124-124L
- PHY 206², 207², 207³
Mathematics, Computer Science
- MTH 168³, 169³
Social and Behavioral Sciences
- Humanities
- Philosophy and Religious Studies

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Communication Competencies

Introduction to the University: ASI 150

General Education courses/academic electives to total at least 120

1With permission.
2May substitute PHY 201-202 with permission.
3May substitute MTH 148-149, or MTH 137, 138 & 149 with permission.

Minor in Geology (GEO)

Geology

Select twelve semester hours (300- or 400-level)

1Appropriate prerequisites must be completed.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>GEO 103</td>
<td>PRINCIPLES OF PHYSICAL GEOGRAPHY</td>
<td>3</td>
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<tr>
<td></td>
<td>Analysis of the physical factors of the earth's environment: weather, climate, land forms, oceans.</td>
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<tr>
<td>GEO 104</td>
<td>INTRODUCTORY GEOLOGY FIELD COURSE</td>
<td>3</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
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<td>Corequisite(s): BIO 104; (BIO 104L or GEO 104L).</td>
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<tr>
<td>GEO 104L</td>
<td>INTRODUCTORY GEOLOGY FIELD LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 109</td>
<td>GENERAL GEOLOGY</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction to the earth as a planet, its composition, structure, and evolutionary development; a brief consideration of the life of the past. For the non-science major. May be taken without laboratory.</td>
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<tr>
<td>GEO 109L</td>
<td>GENERAL GEOLOGY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 115</td>
<td>PHYSICAL GEOLOGY</td>
<td>3</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>GEO 115L</td>
<td>PHYSICAL GEOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>GEO 116</td>
<td>GEOLOGICAL HISTORY OF THE EARTH</td>
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<td></td>
<td>A comprehensive study of earth history from its origins to the present.</td>
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<td>Corequisite(s): (GEO 109 or 115); permission of instructor.</td>
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<tr>
<td>GEO 116L</td>
<td>GEOLOGICAL HISTORY OF THE EARTH LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>GEO 198</td>
<td>GEO, LANDSCAPE, AND ENVIRONMENT OF THE MIAMI VALLEY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<td></td>
<td>Corequisite(s): (GEO 109 or 115) or permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>GEO 201</td>
<td>MINERALOGY</td>
<td>3</td>
</tr>
</tbody>
</table>
Introduction to crystallography, crystal chemistry and crystal structure. Study of the major groups of rock-forming minerals, their association and occurrence with emphasis on identification by physical properties and optical techniques. 

**Prerequisite(s):** (GEO 109 or 115) or permission of instructor.

**GEO 201** **MINERALOGY LABORATORY**
Course to accompany GEO 201. Three hours per week.

**GEO 204** **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 206** **ENVIRONMENTAL GEOLOGY**
Study of the relationship of geologic factors to the problems of water supply, pollution, erosion, land use, and earth resources. Laboratory optional.

**Prerequisite(s):** (GEO 109 or 115) or permission of instructor.

**GEO 206L** **ENVIRONMENTAL GEOLOGY LABORATORY**
Course to accompany GEO 206. Two hours each week.

**GEO 218** **ENGINEERING GEOLOGY**
A comprehensive study of geologic principles applicable to civil engineering practices.

**GEO 301** **STRUCTURAL GEOLOGY**
The origin and development of structural features of the earth's crust; folding, faulting, volcanism, mountain building, and metamorphism.

**Prerequisite(s):** GEO 115, 116, 201.

**GEO 301L** **STRUCTURAL GEOLOGY LABORATORY**
Course to accompany GEO 301. Two hours each week.

**GEO 302** **GLACIAL GEOLOGY**
The origin of mountain and continental glaciers; their depositional features and erosive activity; history of glaciation in geologic past with special emphasis on North American Quaternary ice advances.

**Prerequisite(s):** GEO 115, 116.

**GEO 302L** **GLACIAL GEOLOGY LABORATORY**
Course to accompany GEO 302. Two hours each week.

**GEO 303** **FIELD GEOLOGY**
Study of field relationships in an area containing abundant igneous, metamorphic, and sedimentary rocks.

**Prerequisite(s):** GEO 115, 116.

**GEO 306** **PROBLEMS AND DECISIONS IN ENVIRONMENTAL GEOLOGY**
An in-depth examination of selected environmental problems and the way in which scientific information guides practice and policy. Topics will range from investigations of natural hazards to considerations of land use and water resources.

**Prerequisite(s):** (GEO 109 or 115) or permission of instructor.
GEO 308L PROBLEMS AND DECISIONS IN ENVIRONMENTAL GEO LAB
Course to accompany GEO 308. Two hours each week and periodic field work.

GEO 309 SURFACE AND GROUNDWATER HYDROLOGY
This course is designed to provide a science or engineering student with the fundamental concepts and principles central to the study of water as a resource. This will include an examination of all components of the hydrologic cycle including surface-water hydrology and management, groundwater hydrogeology, and water resource management. **Prerequisite(s):** (GEO 109 or 218) or permission of instructor.

GEO 309L SURFACE AND GROUNDWATER HYDROLOGY LABORATORY
Laboratory exercises to accompany GEO 309. Three hours per week.

GEO 310 STRATIGRAPHY
The interpretation of specific lithotypes and the synthesis of the stratigraphic record. **Prerequisite(s):** GEO 116.

GEO 310L STRATIGRAPHY LABORATORY
Course to accompany GEO 310. Two hours each week.

GEO 401 PALEONTOLOGY
The study of ancient life. The morphology, ecology, evolution, and stratigraphic distributions of selected invertebrates, vertebrates, and plants.

GEO 401L PALEONTOLOGY LABORATORY
Course to accompany GEO 401. Two hours each week.

GEO 403 SEDIMENTOLOGY
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 LABORATORY
Course to accompany GEO 403. Two hours each week.

GEO 404 PROBLEMS IN GEOLOGY
A consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

GEO 411 PETROLOGY
Study of the formation of sedimentary, igneous, and metamorphic rocks. **Prerequisite(s):** GEO 201.

GEO 411L PETROLOGY LABORATORY
Course to accompany GEO 411. Two hours each week. **Prerequisite(s):** GEO 201.

GEO 412 INTRODUCTORY GEOCHEMISTRY
Study of elementary thermodynamics, aqueous geochemistry, and principles governing the distribution of trace elements, radioisotopes and stable isotopes in igneous, metamorphic and sedimentary rocks. Emphasis on applications and solution of geological problems. **Prerequisite(s):** GEO 201 or permission of instructor.

GEO 412L INTRODUCTORY GEOCHEMISTRY LABORATORY
Course to accompany GEO 412. Three hours each week.

GEO 450 APPLIED GIS
Concepts and implementation of project design and analysis in geographic information systems (GIS). Students will learn the practice of GIS as a tool for spatial analysis, and as it applies in professional disciplines. The course will stress database design and present skills for data input, query analysis, and data output using GIS.

GEO 455 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 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 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 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, 152) or (GEO 115, 116) or permission of instructor.

GEO 495 GEOLOGY SEMINAR
Introduction to professional practices in the geosciences. Students will attend seminar talks by guest speakers, research career options and graduate programs in the earth sciences, develop a professional resume, and participate in other profession-building activities. May be repeated.
**Prerequisite(s):** Permission of instructor.

GEO 498 GEOLOGICAL RESEARCH AND THESIS
Research project within an area of the geological sciences, including, but not limited to, environmental geology, geochemistry, geomorphology, or paleontology. The results are to be presented in a written thesis.
**Prerequisite(s):** Permission of instructor.
School of Education and Allied Professions
(HSS) Health and Sport Science

The mission of the Department of Health and Sport Science is to prepare students to be proficient and professional in the disciplines of dietetics/nutrition, exercise science, physical education, pre-physical therapy, and sport management.

The department also believes its mission is to provide educational programs and instruction for the health fitness needs of all members of the University community.

The department prepares physical educators to meet the needs of public and private schools. The Exercise Science and Fitness Management Program is designed to prepare students for professional opportunities in areas of corporate health, "wellness" programs and health maintenance in a variety of settings. The Sport Management Program is designed to prepare students for professional opportunities in private sports clubs, health clubs, sports organizations/federations, newspapers, television, sporting goods, and the multitudinous areas of recreation. The Pre-Physical Therapy Program will prepare students for graduate school in physical therapy. The Nutrition and Dietetics Programs prepare students for post-baccalaureate dietetic internships or preprofessional practice programs. Along with minimum ACT/SAT scores, minimum cumulative GPAs are required for students wishing to transfer into the department.

In all the department's activities there is a constant search for excellence. The long-range goals and strategies relate to this search in teaching, research, inquiry, programs, recruitment of quality students, and service. Commitment to the use of technology in teaching and research is highly valued in the Department of Health and Sport Science.

Faculty
Paul M. Vanderburgh, Chairperson
Professors Emeriti: Drees, LaVanche, Leonard, Morefield, Roberts, Schleppi, Siciliano
Associate Professors: Baer, Brahler, Daprano, DeMarco, Laubach, Linderman, Titlebaum
Assistant Professors: Dolan
Lecturer: Gallo

Majors/Minors (Collapse All)

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 American Dietetic Association. No liability insurance is needed since the students in this program do not participate in a practice setting.

The didactic program in dietetics is currently granted initial accreditation by the Commission on Accreditation for Dietetics Education (CADE), Suite 2000, 120 South Riverside Plaza, Chicago, Illinois 60606, Phone: (900) 877-1600.

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td></td>
<td>First-Term</td>
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<tr>
<td></td>
<td>ETF 151 CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY</td>
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<tr>
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<td>ETF 101 COLLEGE COMPOSITION I</td>
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<tr>
<td></td>
<td>HSS 101 INTRODUCTION TO THE UNIVERSITY</td>
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<tr>
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<td>HSS 210-210L INTRODUCTORY FOODS (HSS 210)</td>
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<td>HSS 295 NUTRITION AND HEALTH</td>
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<td>PHIL 103 INTRODUCTION TO PHILOSOPHY or REL (PHIL 103)</td>
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<td>INTRODUCTION TO RELIGION (REL 103)</td>
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<td>ETF 152 CONCEPTS OF BIOLOGY II: EVOLUTION AND ECOLOGY</td>
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<td>CMM 110 GROUP DECISION MAKING</td>
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<td>CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111) PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
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<td>ETF 102 COLLEGE COMPOSITION II</td>
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<td>HSS 113 INTRO TO DIETETICS AND NUTRITION</td>
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<td>HSS 226 COMPUTER APPLICATIONS IN SPORT SCIENCE</td>
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<td>PHIL 103 INTRODUCTION TO PHILOSOPHY or REL (PHIL 103)</td>
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<td>Sophomore-Year</td>
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<td>CHM 123-123L GENERAL CHEMISTRY (CHM 123) GENERAL CHEMISTRY LABORATORY (CHM 123L)</td>
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<tr>
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<td>ECO 203 PRINCIPLES OF MICROECONOMICS</td>
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<td>HST 103 THE WEST AND THE WORLD</td>
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<td>ETF 150 CULTURAL ANTHROPOLOGY</td>
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<td>CHM 124-124L GENERAL CHEMISTRY (CHM 124) GENERAL CHEMISTRY LABORATORY (CHM 124L)</td>
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<td>HSS 304 INSTITUTIONAL QUANTITY FOOD BUYING</td>
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<td>MTH 207 INTRODUCTION TO STATISTICS</td>
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<td>English writing elective</td>
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</table>
University of Dayton - the Bulletin - Health and Sport Science

Junior-Year

<table>
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<tr>
<th>First-Term</th>
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<tr>
<td>BIO 411-411L</td>
<td>GENERAL MICROBIOLOGY (BIO 411)</td>
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<tr>
<td>CHM 313</td>
<td>ORGANIC CHEMISTRY</td>
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<tr>
<td>HSS 307</td>
<td>HUMAN PHYSIOLOGY</td>
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<tr>
<td>HSS 356</td>
<td>HR MANAGEMENT IN HEALTH AND SPORT</td>
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Second-Term

| 15 |
| ACC 200 | INTRODUCTION TO ACCOUNTING |
| HSS 303 | FOOD SERVICE SYSTEMS MANAGEMENT |
| HSS 402 | NUTRITION FOR THE AGING ADULT |
| HSS 406 | NUTRITION FOR MOTHER AND CHILD |
| MGT 301 | ORGANIZATIONAL BEHAVIOR |
| PSY 431 | INTERVIEWING AND COUNSELING |

Senior-Year

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PHL/REL elective

Second-Term

| 14 |
| HSS 408-408L | PHYSIOLOGY OF EXERCISE (HSS 408) |
| HSS 456 | NUTRITIONAL BIOCHEMISTRY II |
| HSS 495 | MEDICAL NUTRITION THERAPY |
| PHL/REL elective | 3 |

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).

First-Year

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Second-Term

| 17 |

Sem. Hrs.

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Bachelor of Science with a major in Exercise Science and Fitness Management (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; and health and fitness club managers. Specific functions include testing, research, evaluating, and prescribing exercise-related activities, and promoting wellness programs.

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<td>EXERCISE FOR SPECIAL POPULATIONS</td>
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<td>HEALTH RESEARCH AND EVALUATION</td>
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Sem. Hrs.

First-Year

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Second-Year

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Art Studies Requirement 3

Sophomore-Year

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Second-Term 17
### Junior-Year

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### Senior-Year

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<sup>1</sup>Course should be taken for three semester hours.

### Notes

Bachelor of Science with a major in Nutrition and Fitness (EHN)

This program offers classes from both the nutrition and exercise curriculum. Those who select the EHN major may take additional classes to qualify them to apply for a dietetic internship following graduation. Students may also fulfill medical or dental schools’ requirements with this program.

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Sem. Hrs. | Courses
---|---
First-Year | 17
  | First-Term
<p>| BIO 151 | CONCEPTS OF BIOLOGY I: CELL AND MOLECULAR BIOLOGY  | 3 |
| ENG 101 | COLLEGE COMPOSITION I                                 | 3 |
| HSS 101 | INTRODUCTION TO THE UNIVERSITY                        | 1 |</p>
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</table>
Bachelor of Science with a major in Pre-Physical Therapy (EPT)

The Exercise Science and 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 performance are considered in this competitive screening. 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.

First-Year

First-Term

Sem. Hrs.

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<td>MTH 148</td>
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Bachelor of Science with a major in Physical Education Pre K-12 (EDP)

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<td>PSY 101</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Junior-Year</td>
<td>BIO 309-309L</td>
<td>Comparative Anatomy of the Vertebrates (BIO 309)</td>
<td>4</td>
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<tr>
<td></td>
<td>CHM 313-313L</td>
<td>Organic Chemistry (CHM 313)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HSS 275</td>
<td>History of Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSS 408-408L</td>
<td>Physiology of Exercise (HSS 408)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PSY 251</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>Senior-Year</td>
<td>CMM 110 or 112</td>
<td>Informative Public Speaking (CMM 110)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>HSS 320</td>
<td>Essentials of Strength Conditioning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSS 409-409L</td>
<td>Kinesiology (HSS 409)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HSS 428</td>
<td>Health Research and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSS 435</td>
<td>Clinical Assessment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 363</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Senior-Year</td>
<td>BIO 152-152L</td>
<td>Concepts of Biology II: Evolution and Ecology (BIO 152)</td>
<td>4</td>
</tr>
</tbody>
</table>
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.

First-Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>First-Term</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG 101 COLLEGE COMPOSITION I</td>
</tr>
<tr>
<td></td>
<td>HSS 101 INTRODUCTION TO THE UNIVERSITY</td>
</tr>
<tr>
<td></td>
<td>HSS 111 INTRODUCTION TO SPORT MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>HST 103 THE WEST AND THE WORLD</td>
</tr>
<tr>
<td></td>
<td>- - - ANT 150 CULTURAL ANTHROPOLOGY (ANT 150)</td>
</tr>
<tr>
<td></td>
<td>or ECO PRINCIPLES OF MICROECONOMICS (ECO 203)</td>
</tr>
<tr>
<td></td>
<td>or POL 101 GLOBAL POLITICS (POL 101)</td>
</tr>
<tr>
<td></td>
<td>or PSY INTRODUCTORY PSYCHOLOGY (PSY 101)</td>
</tr>
<tr>
<td></td>
<td>or SOC 204 MODERN SOCIAL PROBLEMS (SOC 204)</td>
</tr>
<tr>
<td></td>
<td>- - - PHL 103 INTRODUCTION TO PHILOSOPHY (PHL 103)</td>
</tr>
<tr>
<td></td>
<td>or REL INTRODUCTION TO RELIGION (REL 103)</td>
</tr>
<tr>
<td>Second-Term</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CMM 110 GROUP DECISION MAKING</td>
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<tr>
<td></td>
<td>ENG 102 COLLEGE COMPOSITION II</td>
</tr>
<tr>
<td></td>
<td>HSS 130 PHYSICAL EDUCATION ACTIVITIES</td>
</tr>
<tr>
<td></td>
<td>HSS 226 COMPUTER APPLICATIONS IN SPORT SCIENCE</td>
</tr>
<tr>
<td></td>
<td>HSS 275 HISTORY OF PHYSICAL EDUCATION AND SPORT</td>
</tr>
<tr>
<td></td>
<td>MTH 207 INTRODUCTION TO STATISTICS</td>
</tr>
<tr>
<td></td>
<td>- - - PHL 103 INTRODUCTION TO PHILOSOPHY (PHL 103)</td>
</tr>
<tr>
<td></td>
<td>or REL INTRODUCTION TO RELIGION (REL 103)</td>
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</table>

Sophomore-Year

<table>
<thead>
<tr>
<th>Term</th>
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<tbody>
<tr>
<td>First-Term</td>
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<tr>
<td></td>
<td>CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING</td>
</tr>
<tr>
<td></td>
<td>(CMM 111)</td>
</tr>
<tr>
<td></td>
<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
</tr>
<tr>
<td></td>
<td>HSS 130 PHYSICAL EDUCATION ACTIVITIES</td>
</tr>
<tr>
<td></td>
<td>HSS 255 SPORT MANAGEMENT PRACTICUM</td>
</tr>
<tr>
<td></td>
<td>Course in Minor</td>
</tr>
<tr>
<td></td>
<td>Art Studies elective</td>
</tr>
<tr>
<td></td>
<td>English writing elective</td>
</tr>
<tr>
<td>Second-Term</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HSS 250 PRINCIPLES OF SPORT MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>HSS 253 SPORT FACILITY OPERATIONS</td>
</tr>
<tr>
<td></td>
<td>Course in Minor</td>
</tr>
<tr>
<td></td>
<td>Course in Professional Competency</td>
</tr>
<tr>
<td></td>
<td>Physical &amp; Life Science elective</td>
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</table>

Junior-Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>First-Term</td>
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<tr>
<td></td>
<td>CMM 113 INTERVIEWING</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
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<td>--------------------------------------------------------------</td>
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<tr>
<td>HSS 285</td>
<td>SPORT MANAGEMENT FIELD EXPERIENCE</td>
</tr>
<tr>
<td>HSS 349</td>
<td>FINANCING SPORT OPERATIONS</td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3</td>
</tr>
<tr>
<td>Course in Professional Competency</td>
<td>3</td>
</tr>
<tr>
<td>English writing elective</td>
<td>3</td>
</tr>
<tr>
<td>Second-Term</td>
<td>15</td>
</tr>
<tr>
<td>HSS 353</td>
<td>SPORTS MEDIA</td>
</tr>
<tr>
<td>HSS 354</td>
<td>SPORT IN THE GLOBAL COMMUNITY</td>
</tr>
<tr>
<td>HSS 357</td>
<td>SPORTS MARKETING</td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3</td>
</tr>
<tr>
<td>Course in Professional Competency</td>
<td>3</td>
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</table>

**Senior-Year**

**First-Term**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>HSS 101</td>
<td>INTRODUCTION TO THE UNIVERSITY</td>
<td>1</td>
</tr>
<tr>
<td>HSS 109</td>
<td>PERSONAL AND PROFESSIONAL DEVELOPMENT OF THE TEACHER</td>
<td>2</td>
</tr>
<tr>
<td>HSS 111</td>
<td>INTRODUCTION TO SPORT MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second-Term**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 353</td>
<td>SPORTS MEDIA</td>
<td>3</td>
</tr>
<tr>
<td>HSS 354</td>
<td>SPORT IN THE GLOBAL COMMUNITY</td>
<td>3</td>
</tr>
<tr>
<td>HSS 357</td>
<td>SPORTS MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>Course in Minor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course in Professional Competency</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHL/REL elective</td>
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**Courses (Collapse All Courses)**

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<thead>
<tr>
<th>Code</th>
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<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>EDI 498</td>
<td>HONORS THESIS</td>
<td>3</td>
</tr>
<tr>
<td>EDI 499</td>
<td>HONORS THESIS</td>
<td>3</td>
</tr>
<tr>
<td>HSS 101</td>
<td>INTRODUCTION TO THE UNIVERSITY</td>
<td>1</td>
</tr>
<tr>
<td>HSS 109</td>
<td>PERSONAL AND PROFESSIONAL DEVELOPMENT OF THE TEACHER</td>
<td>2</td>
</tr>
<tr>
<td>HSS 111</td>
<td>INTRODUCTION TO SPORT MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>HSS 112</td>
<td>INTRODUCTION TO EXERCISE SCIENCE AND FITNESS MANAGEMENT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>A 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.</td>
<td></td>
</tr>
<tr>
<td>HSS 113</td>
<td>INTRO TO DIETETICS AND NUTRITION</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HSS 114</td>
<td>INTRODUCTION TO PHYSICAL THERAPY</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HSS 117</td>
<td>PERSONAL AND COMMUNITY HEALTH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of health science and principles of preventive medicine as introduction to other courses in health and sport science.</td>
<td></td>
</tr>
<tr>
<td>HSS 130</td>
<td>PHYSICAL EDUCATION ACTIVITIES</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Selected courses offered to all University students.</td>
<td></td>
</tr>
<tr>
<td>HSS 182</td>
<td>AEROBIC CONDITIONING</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Aerobic conditioning techniques developed primarily through running programs. Required for EES and EDP majors.</td>
<td></td>
</tr>
<tr>
<td>HSS 184</td>
<td>CONDITIONING</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>A course designed for Exercise Science and Pre-Physical Therapy majors to introduce them to concepts and techniques of aerobic conditioning using exercise devices such as treadmills, bicycle ergometers, stairmasters, rowing machines, etc.</td>
<td></td>
</tr>
<tr>
<td>HSS 185</td>
<td>RHYTHM, DANCE, GAMES &amp; GYMNASTICS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Theory and practice of Educational Games, Educational Dance, and Educational Gymnastics.</td>
<td></td>
</tr>
<tr>
<td>HSS 187</td>
<td>TEAM SPORTS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Content and pedagogical content knowledge of selected team sports will be presented. Overview of history, rules, officiating, strategy, and skill practice shall be provided. Students will also gain competence in the instruction, adaptation, modification, and administration of the selected team sports.</td>
<td></td>
</tr>
<tr>
<td>HSS 200</td>
<td>MOTOR LEARNING DEVELOPMENT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Investigation of fundamental principles of human movement. Physical and psychological variables essential to motor learning are considered.</td>
<td></td>
</tr>
<tr>
<td>HSS 210</td>
<td>INTRODUCTORY FOODS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Study of scientific principles applied to the processing and preparation of food to maintain nutritional quality and aesthetic value. <strong>Corequisite(s):</strong> HSS 210L.</td>
<td></td>
</tr>
<tr>
<td>HSS 210L</td>
<td>INTRODUCTORY FOODS LABORATORY</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Course to accompany HSS 210 lecture. <strong>Corequisite(s):</strong> HSS 210.</td>
<td></td>
</tr>
<tr>
<td>HSS 220</td>
<td>ADAPTED PHYSICAL EDUCATION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A course to prepare prospective teachers to adapt a physical education program so all children and youth can successfully participate in activity programs. Study of the atypical child in order to organize and administer a program which will meet individual needs.</td>
<td></td>
</tr>
<tr>
<td>HSS 223</td>
<td>BASIC MOVEMENT EDUCATION</td>
<td>3</td>
</tr>
</tbody>
</table>
The child-centered approach to learning in physical education designed to help children develop greater understanding of themselves as movers, the space in which to move and the factors affecting efficient movement. Developmentally appropriate motor skills, movement concepts and activities (games, dance and gymnastics) are presented as the curriculum model K-12.

HSS 226 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 230 BASIC ATHLETIC TRAINING
Application of principles and methods involved in prevention, care, and treatment of athletic injuries.
Prerequisite(s): HSS 305.

HSS 250 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 OPERATIONS
The processes of planning, constructing, equipping, maintaining, and operating sport facilities are investigated in this course.

HSS 255 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 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 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 AND HEALTH
Study of the nutrient needs of humans and of their choices as modified by socioeconomic, cultural, and life cycle factors.

HSS 300 METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION
Study of the methods and skills essential for effective teaching in physical education.
Prerequisite(s): HSS 200.

HSS 302 GLOBAL AND CULTURAL NUTRITION
Study of the relationship among consumers, the food; the historical evolution of food; socioeconomic influences on food.

HSS 303 FOOD SERVICE SYSTEMS MANAGEMENT
Study of food service organizations and management. Demonstrate the importance of menu as the primary control of the food service system - factors affecting menu planning, customer satisfaction, and management decisions.

HSS 304 INSTITUTIONAL QUANTITY FOOD BUYING
To study quantity food production in foodservice system through application of principles for determining needs and procuring, producing and storing foods in quantity, along with institutional equipment selection, maintenance, and layout.

**Prerequisite(s):** HSS 210, 210L; a Multipurpose Computer Account (AKA Dial-in/PPP/Flyernet account); basic IBM compatible computer skills.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSS 305</td>
<td>HUMAN ANATOMY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the human body with emphasis on the interdependent relationships of structure and function.</td>
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</tr>
<tr>
<td>HSS 305L</td>
<td>HUMAN ANATOMY LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Hands-on study of the human body with emphasis on the interdependent relationships of structure and function through the use of interactive anatomy.</td>
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</tr>
<tr>
<td>HSS 306</td>
<td>HUMAN PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study of the functions of body systems. Cell physiology, structural contributions or limitations, concepts of biochemistry, control of functions, physiological limits of function, and examples of pathologic developments.</td>
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</tr>
<tr>
<td>HSS 307</td>
<td>HUMAN PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A survey of the functions of body systems with respect to general cell physiology and specialization into tissues, structural contributions to tissue/organ physiology, pertinent concepts of biochemical physiology, tissue metabolism and energy/food requirements during stress and exercise, recent research into control and regulation of functions of major systems, physiologic limitations outside environmental ranges, and selected examples of pathophysiology.</td>
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<tr>
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<td><strong>Prerequisite(s):</strong> CHM 123, 124; HSS 305.</td>
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</tr>
<tr>
<td>HSS 308</td>
<td>SCIENCE OF HUMAN MOVEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Provides students with information and skills that will enhance their understanding of the scientific principles of human movement. Topics surveyed include: anatomy, physiology, mechanics, physics, nutrition, and biochemistry, as well as their relationship to health, fitness, and athletic performance.</td>
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</tr>
<tr>
<td>HSS 310</td>
<td>COACHING BASKETBALL</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The theory, skills, strategies, and methods of coaching basketball. First term, each year. Elective.</td>
<td></td>
</tr>
<tr>
<td>HSS 312</td>
<td>COACHING FOOTBALL</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The theory, skills, strategies, and methods of coaching football. Second term, each year. Elective.</td>
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<tr>
<td>HSS 314</td>
<td>COACHING BASEBALL</td>
<td>2</td>
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<tr>
<td></td>
<td>The theory, skills, strategies, and methods of coaching baseball. Elective.</td>
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<tr>
<td>HSS 316</td>
<td>COACHING SOCCER</td>
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<tr>
<td></td>
<td>The theory, skills, strategies, and methods of coaching soccer. Elective.</td>
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</tr>
<tr>
<td>HSS 317</td>
<td>COACHING TRACK AND FIELD</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The theory, skills, strategies, and methods of coaching track and field. Elective.</td>
<td></td>
</tr>
<tr>
<td>HSS 318</td>
<td>TEACHING AND COACHING GOLF</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>The theory, skills, strategies, and methods of teaching and/or coaching golf.</td>
<td></td>
</tr>
<tr>
<td>HSS 320</td>
<td>ESSENTIALS OF STRENGTH CONDITIONING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A course designed to prepare students for the certified strength and conditioning specialist (NSCA) exam. Topics included will pertain to muscular strength and endurance conditioning, physiology of strength conditioning, muscular strength testing and evaluation, and organization/administration of strength training programs.</td>
<td></td>
</tr>
<tr>
<td>HSS 324</td>
<td>METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION</td>
<td>3</td>
</tr>
</tbody>
</table>
Basic theory, techniques, and methods for conducting a program for elementary students.

**Prerequisite(s):** HSS 223; junior standing.

**HSS 325  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 334  CPR FOR CHILDREN**

Students register for this course in conjunction with HSS 333.

**HSS 335  MASSAGE THERAPY**

Introduction to bodywork and issues of health and wellness. Laboratory sessions will provide an opportunity to integrate and apply massage knowledge and skill drawn from a variety of healing systems; Swedish Massage, Acupressure, Reflexology and Hydrotherapy. Designed for students in Exercise Science, and Pre-Physical Therapy. Required that students have had Human Anatomy, Human Physiology.

**HSS 344  OUTDOOR EDUCATION**

Action seminar to familiarize teachers and recreation leaders with the curricula, teaching techniques, and skills for good outdoor education programs.

**HSS 349  FINANCING SPORT OPERATIONS**

The financial concepts and theories and their application in the professional intercollegiate, recreational and commercial sport industries. Topics include revenues and expenses of professional, intercollegiate, and private sport industries; issues affecting these revenues and expenses; fundraising at the intercollegiate level; ownership in sport; and public and private funding for non-profit sports programs.

**HSS 353  SPORTS MEDIA**

This is the study and the appraisal of the media and the role that it plays in contemporary sports. Attention is also given to preparation and evaluation of media sports presentations.

**HSS 354  SPORT IN THE GLOBAL COMMUNITY**

Analyze the growth and development of sport throughout the global community with an emphasis on the structure and organization of sport. Additionally, the production of major sport events, such as the Olympics and World Cup Soccer Tournament, will be examined.

**Prerequisite(s):** HSS 250.

**HSS 356  HR MANAGEMENT IN HEALTH AND 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**

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 361  HEALTH CONSUMERISM**

Sorting fad from fact in using health products and services from the present market-includes fad diets, nutrition nonsense, survey of medical hoaxes, misleading advertising and protection that is available to all health consumers. Research into current fads and frauds and exposure of health myths and misconceptions is included.

**HSS 401  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 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.

**Prerequisite(s):** (HSS 307; CHM 314; HSS 295).

**HSS 403 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.

**Prerequisite(s):** (HSS 307; CHM 314; HSS 295).

**HSS 404 COACHING INTERNSHIP**

Practical coaching experience working in local schools with interscholastic teams. Elective.

**HSS 405 TESTS AND MEASUREMENTS IN SPORT SCIENCE**

A direct relationship of tests and measurements to the field of sport science.

**HSS 406 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, 307.

**HSS 407 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 307).

**HSS 408L 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 307).

**HSS 409 KINESIOLOGY**

Investigation and analysis of human motion based on anatomical, physiological, and mechanical principles.

**Prerequisite(s):** HSS 305; (HSS 306 or 307).

**HSS 409L KINESIOLOGY LABORATORY**

Course to accompany HSS 409. Weekly two-hour laboratory stressing the practical application of kinesiology.

**HSS 417 STUDENT TEACHING**

Teaching under close supervision in the specialized subject area in both elementary and high school grades for a minimum of twelve weeks. A seminar is held once a week.

**Prerequisite(s):** Formal admission a full semester in advance.

**HSS 422 EXERCISE FOR SPECIAL POPULATIONS**

A course designed to prepare prospective exercise specialists to adapt physical education and exercise so that all individuals can successfully participate in activity programs. A study of various disabilities and conditions in order to organize and administer a program which will meet individual needs.

**HSS 428 HEALTH RESEARCH AND EVALUATION**

An introduction to statistical analysis and research methodology. Emphasis will be on the use of these in determining health statistics, designing and evaluating health studies, accessing data banks; collection, analysis and interpretation of health statistics.

**HSS 435 CLINICAL ASSESSMENT**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 307</td>
<td>SAFE AND THE LAW IN PHYSICAL EDUCATION AND SPORTS</td>
<td>3</td>
<td>Study of the legal aspects of physical education and athletics. Analysis of specific court cases. Formulation of safety policies.</td>
</tr>
<tr>
<td>HSS 408</td>
<td>SELECTED STUDIES IN PHYSICAL EDUCATION</td>
<td>1-4</td>
<td>Investigating, analyzing, and reporting on a problem in physical education. <strong>Prerequisite(s):</strong> Permission of department chairperson.</td>
</tr>
<tr>
<td>HSS 455</td>
<td>SAFETY AND THE LAW IN PHYSICAL EDUCATION AND SPORTS</td>
<td>3</td>
<td>Integration and application of principles of physiology, nutrition and biochemistry to the processes of metabolic function.</td>
</tr>
<tr>
<td>HSS 456</td>
<td>NUTRITIONAL BIOCHEMISTRY II</td>
<td>3</td>
<td>Study of the legal aspects of physical education and athletics. Analysis of specific court cases. Formulation of safety policies.</td>
</tr>
<tr>
<td>HSS 465</td>
<td>PHYSICAL THERAPY SEMINAR</td>
<td>3</td>
<td>Investigating, analyzing, and reporting on a problem in physical education. <strong>Prerequisite(s):</strong> Permission of department chairperson.</td>
</tr>
<tr>
<td>HSS 470</td>
<td>CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION</td>
<td>3</td>
<td>Principles and procedures for curriculum construction and revision. Study of philosophies (institutional, professional, and personal) and their relationship to curriculum development.</td>
</tr>
<tr>
<td>HSS 485</td>
<td>SPORT MANAGEMENT INTERNSHIP</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>HSS 490</td>
<td>EXCISE SCIENCE INTERNSHIP-ON CAMPUS</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>HSS 491</td>
<td>EXCISE SCIENCE INTERNSHIP-OFF CAMPUS</td>
<td>1-3</td>
<td>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.</td>
</tr>
<tr>
<td>HSS 495</td>
<td>MEDICAL NUTRITION THERAPY</td>
<td>4</td>
<td>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. <strong>Prerequisite(s):</strong> (BIO 403 or HSS 307); CHM 314; HSS 401.</td>
</tr>
</tbody>
</table>
College of Arts and Sciences

(HST) History  (Collapse Description)

History critically studies the past and those key values which have shaped society. History also provides students with a sense of perspective and with the ability to make critical judgments. Those with a sharply honed historical consciousness know that often what appears to be a simple solution to a simple problem will not work because unexpressed historical forces and traditions lie just beneath the surface. Therefore, historical consciousness helps to make the world comprehensible. To be ignorant of history is to be, in a very fundamental way, intellectually defenseless, unable to understand the workings of this or other societies. Thus all totalitarian societies have stringently controlled the study and writing of history. They recognize that a free mind needs to know its past, to debate and discuss how the world came to be as it is, in order to know what to defend and what to change and how to resist imposed ideologies.

Students majoring in history are offered a flexible curriculum that allows them to have a double major or one or more minors. Students are also strongly encouraged to develop interdisciplinary areas of concentration to meet their interests and vocational goals. Examples of areas of concentration are pre-law, business, international affairs, and historical administration, preservation, and archival management. History majors should consult the department chairperson for a departmental advising brochure and further details. History majors pursue professions in numerous fields including education, law and government, international affairs, archives and museums, communications, and business.

Students in B.A. programs can acquire teacher licensure through the ED1A program (See EDT). For details, consult the department chairperson.

A history minor consists of eighteen semester hours.

Faculty

Julius A. Amin, Chairperson
Professors Emeriti: Alexander, Eid, Mathias, Taylor, Vines
Professors: Amin, Bednarek, Heitmann, Morman, Palermo, Schweikart
Associate Professors: Cadegan, Carlson, Darrow, Fleischmann, Flockerzie, Hume, Merlihew, Santamarina, Trollinger
Assistant Professors: Agnew, Borbonus, Carter, Reid
Adjunct Professor: Gannon
Lecturers: Bartley, Uhlman

Majors/Minors  (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in History (HST)

Sem. Hrs.

<table>
<thead>
<tr>
<th>History</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST (103 or 198), 251, 252, 301</td>
<td>12</td>
</tr>
<tr>
<td>HST electives (300-level)¹</td>
<td>18</td>
</tr>
<tr>
<td>Select two HST seminars (400-level)²</td>
<td>6</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies               12
Literature: English or Foreign Language       3
Creative and Performing Arts                  3
Foreign Language and/or Additional Arts and/or Humanities 3-9
Social Sciences
Mathematics (excludes MTH 102, 204, 205)
Natural Sciences

Communication Competencies
Introduction to the University: ASI 150

General Education courses/academic electives to total at least 124

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.

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.

For History majors, this total should include either six to eight semester hours in a foreign language or six semester hours in quantitative skills courses (e.g., computer science, statistics, or mathematics). Where appropriate, this credit may apply to other requirements as well.

Minor in History (HST)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of key themes in world history including the social, economic, cultural, political, and environmental forces that shaped the human past throughout the globe.</td>
<td></td>
</tr>
<tr>
<td>HST 198</td>
<td>HISTORY SCHOLARS' SEMINAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HST 251</td>
<td>AMERICAN HISTORY TO 1865</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of the development of the American nation from colonial times to 1865; political trends, economic and social foundations of American institutions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>HST 252</td>
<td>AMERICAN HISTORY SINCE 1865</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of the development of the nation after the Civil War, stressing social, economic, and political problems.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>HST 300</td>
<td>CAREER DEVELOPMENT IN HISTORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> (HST 103 or equivalent); HST 301 (may be taken as a corequisite).</td>
<td></td>
</tr>
<tr>
<td>HST 301</td>
<td>RESEARCH METHODS SEMINAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Historical methods, philosophy, and introductory historiography, the last based on the professor's field of specialization. Required for all history majors.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
<td></td>
</tr>
</tbody>
</table>
HST 302  HISTORY OF ANCIENT GREECE
Survey of Greek history and culture from the Bronze Age to Alexander the Great.
Prerequisite(s): HST 103 or equivalent.

HST 303  HISTORY OF THE ROMAN REPUBLIC AND EMPIRE
Survey of Roman history with emphasis on the political, social, and institutional evolution of the Roman state and the organization and structure of the Roman Empire.
Prerequisite(s): HST 103 or equivalent.

HST 305  MEDIEVAL EUROPE
European history from the fourth to the fifteenth century, including birth of the Middle Ages; development of Christianity; Byzantine, Islamic, and Carolingian Empires; feudalism; Crusades; rise of universities; birth of national cultures.
Prerequisite(s): HST 103 or equivalent.

HST 307  RENAISSANCE AND REFORMATION
The development of European history from the 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
A concentrated analysis of the various worlds created in Shakespeare's plays and their interconnection with and depiction of the major elements of the historical world of early modern England. In the process of this integrated analysis, the Historical Study and Arts Study domains will be respected and taught as separate disciplines. This course is cross-listed with ENG 363.
Prerequisite(s): HST 103 or equivalent.

HST 311  OLD REGIME EUROPE
From the later Reformation to the era of the French Revolution: intellectual and cultural development; political, economic, and social trends of the Old Regime.
Prerequisite(s): HST 103 or equivalent.

HST 312  AGE OF DEMOCRATIC REVOLUTIONS
Historical analysis of the ideological, political, social and economic changes of the late eighteenth and early nineteenth centuries, emphasizing developments in France and Europe.
Prerequisite(s): HST 103 or equivalent.

HST 313  THE DUAL REVOLUTION AND ITS CONSEQUENCES - EUROPE 1815-1914
Historical analysis of nineteenth century Europe emphasizing the ideological, political, economic and social consequences of the Industrial and French revolutions, commonly known as the Dual Revolution.
Prerequisite(s): HST 103 or equivalent.

HST 314  MODERN EUROPE IN DECLINE - 1890-1945
Historical study of the decline and fall of European civilization from the eve of World War I to the end of World War II, including an examination of political, economic, social, and cultural conditions.
Prerequisite(s): HST 103 or equivalent.

HST 315  EUROPE IN THE POSTWAR ERA - 1945 TO THE PRESENT
Historical survey of domestic and foreign politics, economics, society, and culture in postwar Europe (East and West) from 1945 to the present.
Prerequisite(s): HST 103 or equivalent.

HST 316  BEETHOVEN AND HIS ERA
Survey of the music of Ludwig van Beethoven, including orchestral works and chamber music, opera, keyboard and sacred music; and a survey of the historical context in which Beethoven lived and worked - Europe and the Habsburg Empire of the late eighteenth and early nineteenth centuries, and especially Vienna, the Habsburg capital. Beethoven is the culmination of the High Classic style and also the first of a new generation of Romantic composers.

Prerequisite(s): HST 103 or equivalent.

HST 319 HISTORY OF LONDON
Study of the evolution of London from a small Roman town to the world's first industrial metropolis. Particular attention to social and environmental conditions and the life of the people.

Prerequisite(s): HST 103 or equivalent.

HST 320 EUROPEAN MILITARY HISTORY
Survey of warfare on the European continent from classical Greece through World War II emphasizing military institutions, organization, weapons, and campaigns and the role of the military in society.

Prerequisite(s): HST 103 or equivalent.

HST 321 MODERN FRANCE
French history from the Bourbon Restoration to the present. Emphasis on political, socio-economic, and cultural factors.

Prerequisite(s): HST 103 or equivalent.

HST 322 HISTORY OF ENGLAND
Major forces and trends in the history of England from 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
Analysis of the development of the German state from 1848 through the period of unification, Second Empire, Weimar Republic, Third Reich, the post-World War II Germanies, to the present.

Prerequisite(s): HST 103 or equivalent.

HST 324 COMPARATIVE NATIONALISM
Comparative study of the origins and consequences of national movements throughout the world. Attention given to the historiography of nationalism and the fate of the nation-state idea in a number of temporal, geographic, political and cultural settings.

Prerequisite(s): HST 103 or equivalent.

HST 325 HISTORY OF RUSSIA TO 1860
History of Kievan Russia and Orthodox Christianity, the Mongol Conquest, the rise of autocracy, reforms and rebellions, revolutionary movements, and the rise of the Empire to the Crimean War.

Prerequisite(s): HST 103 or equivalent.

HST 326 RUSSIA, THE SOVIET UNION AND BEYOND, 1860-PRESENT
Social, political, and cultural history of Russia from the great reforms of the late empire, through the wars, revolutions, and reconstructions of the Soviet Period, to the present.

Prerequisite(s): HST 103 or equivalent.

HST 327 NATIONAL CULTURES OF THE SOVIET UNION AND ITS SUCCESSOR STATES
The history of the formation of the Soviet Union and of national and cultural relations between the Russians and their Slavic, Baltic, Caucasian, Central Asian, and Siberian neighbors.

Prerequisite(s): HST 103 or equivalent.

HST 328 HISTORY OF EASTERN EUROPE
Survey of the history of the nations lying between Germany and the Soviet Union, the Baltic and Aegean Seas, stressing medieval and early modern background as a foundation of contemporary history.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 330**  
**HISTORY OF 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**  
Survey of the development of civilization on the Indian subcontinent from the first extant records (c. 2500 BCE) to post-Independence modern India in connection with the B.A. Program in Philosophy.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 332**  
**MODERN CHINA AND JAPAN**  
Study of the economic, political, social, and cultural developments of modern China and Japan from the eighteenth century to the present.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 333**  
**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**  
**HISTORY OF THE PALESTINIAN-ISRAEL CONFLICT**  
Study of the history of the Palestinian-Israeli conflict from its beginnings in the late nineteenth century up to the present, with emphasis on a variety of historical interpretations of the actions and perspectives of the different parties involved.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 335**  
**HISTORY OF SOUTH ASIA**  
Survey of the major political, religious, cultural and economic developments on the Indian subcontinent over the past 500 years.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 336**  
**HISTORY OF AFRICA TO 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**  
**HISTORY OF AFRICA - 19TH CENTURY TO THE PRESENT**  
Emphasis: colonialism and its impact, the growth of nationalism and the problems of contemporary Africa.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 338**  
**STATE AND SECESSION IN SOUTH ASIA**  
Survey of the failure of the nation-state and the rise of secessionist movements in South Asia since 1947.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 339**  
**HISTORY OF SOUTH AFRICA**  
Study of South African society with emphasis on historical interpretations of the origins of segregation, economic growth, nationalism, Apartheid, Bantusans, and other issues of contemporary significance.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 340**  
**HISTORY OF SCIENCE**  
Survey of the development of science from its origins in the ancient world to the present.  
**Prerequisite(s):** HST 103 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 341</td>
<td>HISTORICAL PERSPECTIVES ON SCIENCE, TECHNOLOGY, AND SOCIETY</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 342</td>
<td>ENVIRONMENTAL HISTORY OF THE AMERICAS</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 343</td>
<td>HISTORY OF CIVIL ENGINEERING</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 344</td>
<td>HISTORY OF SCIENCE, TECHNOLOGY, AND THE MODERN CORPORATION</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 346</td>
<td>HISTORY OF AMERICAN AVIATION</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 347</td>
<td>SEX, RACE, AND SCIENCE</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 348</td>
<td>LIFE AND TECHNOLOGY</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 349</td>
<td>TECHNOLOGY AND THE CULTURE OF WAR</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 350</td>
<td>GAY AND LESBIAN U.S. HISTORY</td>
<td>HST 103.</td>
</tr>
<tr>
<td>HST 351</td>
<td>AMERICAN WOMEN'S AND GENDER HISTORY</td>
<td>HST 103 or equivalent.</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Description</td>
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<tr>
<td>HST 352</td>
<td>HISTORY OF THE AMERICAN FAMILY</td>
<td>Survey of the historical development of American family life from the colonial period to the present. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 353</td>
<td>HISTORY OF WOMEN IN EUROPEAN SOCIETIES</td>
<td>Study of the changing roles of women in European societies from the roots of industrialization to the present. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 354</td>
<td>HISTORY OF WOMEN AND GENDER IN THE MIDDLE EAST</td>
<td>Study of the history of the evolving roles and status of women in Middle Eastern societies, from the early modern period to present. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 355</td>
<td>AMERICAN URBAN HISTORY</td>
<td>Historical analysis of community life in American society; the nature and development of small towns, cities, and suburbs; communal experience, social organizations, and political culture. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 356</td>
<td>COMPARATIVE HISTORY OF WOMEN IN THE THIRD WORLD</td>
<td>Study of the comparative histories of women in Third World societies from a global perspective, using specific case studies of women in different societies around the world. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 357</td>
<td>LATIN AMERICA IN THE TWENTIETH CENTURY</td>
<td>Intensive examination of revolution and reaction in today's Latin America and the implications for those who formulate U.S. foreign policy. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 358</td>
<td>SOCIAL AND CULTURAL HISTORY OF LATIN AMERICA</td>
<td>Survey of social and cultural history of Latin America and the Caribbean from pre-Columbian times to the present. Emphasis on the interaction between the European colonizer and the Amerindian and African peoples of the hemisphere. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 359</td>
<td>HISTORY OF AMERICAN CITY PLANNING</td>
<td>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. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 360</td>
<td>U.S. LEGAL AND CONSTITUTIONAL HISTORY I</td>
<td>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. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 361</td>
<td>U.S. LEGAL AND CONSTITUTIONAL HISTORY II</td>
<td>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. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
<tr>
<td>HST 365</td>
<td>AMERICAN FILMS AS HISTORY</td>
<td>Study of the development of American values, myths, institutions, and perspectives through the use of films as a primary source. <strong>Prerequisite(s):</strong> HST 103 or equivalent.</td>
</tr>
</tbody>
</table>
HST 369  CIVIL WAR AND RECONSTRUCTION  3
Remote and immediate causes of the Civil War; problems of North and South
during the war; consequences of the war; efforts to create a new Union,
1865 to 1877; problems caused by those efforts.
Prerequisite(s): HST 103 or equivalent.

HST 370  ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES  3
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  UNITED STATES WORKING CLASS  3
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  HISTORY OF RELIGION IN THE UNITED STATES  3
Survey of religion in the United States from the colonial era to the present.
Particular attention to the interaction of religion with other aspects of
American society and culture.
Prerequisite(s): HST 103 or equivalent.

HST 373  AMERICAN MILITARY HISTORY  3
Survey of American military affairs, including military, naval, and air
campaigns, from early settlement to the present.
Prerequisite(s): HST 103 or equivalent.

HST 374  IRELAND AND AMERICA  3
Study of the cultural-historical background of both Scotch-Irish and Celtic
Irish immigrants to America and how they influenced the varying reactions of
the dominant Anglo-Saxon Protestantism of America.
Prerequisite(s): HST 103 or equivalent.

HST 375  HISTORY OF U.S. FOREIGN RELATIONS  3
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  SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES  3
Social and cultural development of the American people: growth of national
spirit, impact of expansion, conflict over slavery, and problems of
industrialization and urbanization.
Prerequisite(s): HST 103 or equivalent.

HST 377  CONTEMPORARY AMERICAN HISTORY  3
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  HISTORY OF GLOBAL IMMIGRANTS TO THE UNITED STATES  3
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 AMERICAN HISTORY  3
Historical and descriptive survey of the native peoples of North America.
Prerequisite(s): HST 103 or equivalent.

HST 382  HISTORY OF MEXICO  3
A survey of Mexican history from pre-Columbian civilization to the present.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 383 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 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 THE ATLANTIC WORLD, 1492-1800**
A comparative look at the people and cultures of Europe, Africa and the Americas who collaborated in the colonization of the Americas. Topics to be covered will include: slavery, missionary work, virgin soil epidemics, frontier wars, gender and the invention of racial categories.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 391 AMERICAN ARCHITECTURAL HISTORY AND PRESERVATION**
A career-oriented course offering a theoretical background in historical preservation and techniques used in identification, research, and recording of historic landmarks worthy of preservation as part of the community heritage.  
**Prerequisite(s):** HST 103 or equivalent.

**HST 398 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 HISTORY OF BLACKS IN THE UNITED STATES 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 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 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 SEMINAR IN AMERICAN HISTORY**
A reading seminar concentrating on one historical topic in American history for detailed analysis. May be repeated as topics change.  
**Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of department chairperson).

**HST 486 SEMINAR IN EUROPEAN HISTORY**
A reading seminar concentrating on one historical topic in European history for detailed analysis. May be repeated as topics change.  
**Prerequisite(s):** (HST 103 or equivalent); (HST 301 or permission of
HST 487  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  SEMINAR IN AFRICAN HISTORY  
A reading seminar concentrating on one historical topic in African history for detailed analysis. May be repeated as topics change.  
Prerequisite(s): (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 490  SEMINAR IN HISTORIOGRAPHY  
A reading seminar concentrating on the various techniques and philosophies of history by which historians have done historical research. May be repeated as topics change.  
Prerequisite(s): (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 493  SEMINAR IN MIDDLE EASTERN HISTORY  
A reading seminar concentrating on one historical topic in Middle Eastern history for detailed analysis. May be repeated as topics change.  
Prerequisite(s): (HST 103 or equivalent); (HST 301 or permission of department chairperson).

HST 495  INTERNSHIP  
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  
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  
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  
Specific subtitles and descriptions to be announced in the composite and posted in the History department office.  
Prerequisite(s): HST 103 or equivalent.
School of Business Administration

(INB) International Business (Collapse Description)

The international business major is an interdisciplinary major designed to meet the needs of students interested in different facets of the international area. It may be taken as a stand-alone major, in conjunction with a major or minor in a functional business discipline, or with a major or minor in a language. The business curriculum for the major consists of all core business courses (FIN 301, MGT 301, MKT 301, OPS 301, MIS 301, and MGT 400) and their prerequisites, five required international business courses: ECO 460 or ECO 461, FIN 450, MGT 403, MKT 440, and INB 450, plus two international electives. These electives may come from the courses listed above, which are not selected as a required course, or from the following international business electives: ACC 412, BAI 301, or MKT 445; 300 or 400 level language courses that are not part of a language major or minor; or from an international course outside the School of Business Administration that is approved by the Director of International Business Programs. One of the two electives is waived if the student has a minor or second major and double counts one of the courses. Both electives are waived if the student has a second major and does not double count one of the courses. In addition, competency in a foreign language, which may be demonstrated by successful completion of two semesters of 200 language study or passing of the competency test given by the language department, and an international experience are required. (This may include: participation in a study abroad program; attendance at an educational institution outside the United States; or an international business internship or co-op.)

A minor in international business consists of twelve semester hours, nine from: ECO 460, ECO 461, MGT 403, MGT 440, or FIN 450 in addition to INB 450.

Two certificates in international business are also available for non-business students wishing to demonstrate an interest in international business. One has a marketing or human resource emphasis. The requirements for this are: four core business courses: ACC 207 or 301, ECO 203, MGT 301, and MKT 301; three International Business courses, including, two courses from ECO 460, MGT 403, MGT 414, MKT 340, and MGT 440; plus INB 450. The second certificate has an economics or finance emphasis. The requirements are: four or five core business courses: ACC 207 and 208 or ACC 301, ECO 203, 204, and FIN 301; three International Business courses, including, two courses from ACC 412, ECO 460, ECO 461, and FIN 450; plus INB 450.

Other requirements for both certificates include: competency in a foreign language which may be demonstrated by successful completion of two years of college language study or passing of the competency test given by the language department, and an international experience. This may include: participation in a study abroad program; attendance at an educational institution outside the United States; or an international business internship or co-op.

William Sekely, Director

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Science with a major in International Business (INB)

<table>
<thead>
<tr>
<th>Major/Minor</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-Year</td>
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</tr>
<tr>
<td>BAI 103(^1)</td>
<td>BUSINESS COMPUTING LABORATORY</td>
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<tr>
<td>BAI 150</td>
<td>BUSINESS EDUCATIONAL PLANNING</td>
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<tr>
<td>BAI 151</td>
<td>BUSINESS INTEGRATION EXPERIENCE</td>
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<tr>
<td>CMM 110(^2)</td>
<td>GROUP DECISION MAKING</td>
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<tr>
<td>ENG 101(^3)</td>
<td>COLLEGE COMPOSITION I</td>
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<tr>
<td>ENG 102(^3)</td>
<td>COLLEGE COMPOSITION II</td>
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1 of 4
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<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<tr>
<td>MTH 128</td>
<td>FINITE MATHEMATICS</td>
<td>3</td>
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<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
</tr>
<tr>
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<tr>
<td>Sophomore-Year</td>
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<tr>
<td>ACC 207</td>
<td>INTRODUCTION TO FINANCIAL ACCOUNTING</td>
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<td>ACC 208</td>
<td>INTRODUCTION TO MANAGERIAL ACCOUNTING</td>
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<td>CMM 111²</td>
<td>INFORMATIVE PUBLIC SPEAKING</td>
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<td>CMM 113²</td>
<td>INTERVIEWING</td>
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<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
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<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 203</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td>ECO 204</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>3</td>
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<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
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<td></td>
<td>Arts Study elective</td>
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<td></td>
<td>Physical and Life Science elective</td>
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<td>HST elective</td>
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<tr>
<td>Junior-Year</td>
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<tr>
<td>ECO 460 or 461</td>
<td>ECONOMIC DEVELOPMENT AND GROWTH (ECO 460)</td>
<td>3</td>
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<tr>
<td></td>
<td>INTERNATIONAL ECONOMICS (ECO 461)</td>
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<tr>
<td>FIN 301</td>
<td>INTRODUCTION TO FINANCIAL MANAGEMENT</td>
<td>3</td>
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<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
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<td>MGT 403</td>
<td>CROSS-CULTURAL MANAGEMENT</td>
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<tr>
<td>MIS 301</td>
<td>INFORMATION SYSTEMS IN ORGANIZATIONS</td>
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<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
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<td>MKT 440</td>
<td>GLOBAL MARKETING</td>
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<td>OPS 301</td>
<td>SURVEY OF OPERATIONS MANAGEMENT</td>
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<td></td>
<td>FHL 313 BUSINESS ETHICS (PHL 313)</td>
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<tr>
<td>or REL 368</td>
<td>CHRISTIAN ETHICS AND THE BUSINESS WORLD (REL 368)</td>
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<td></td>
<td>General elective</td>
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<tr>
<td>Senior-Year</td>
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<tr>
<td>FIN 450</td>
<td>INTERNATIONAL BUSINESS FINANCE</td>
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<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
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<tr>
<td>MGT 490</td>
<td>MANAGING THE ENTERPRISE</td>
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<td>General electives</td>
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<td>Business Communication Requirement</td>
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<td>PHL/REL elective</td>
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<td></td>
<td>INB elective</td>
<td>6</td>
</tr>
</tbody>
</table>

1. A proficiency test for BAI 103L is available for those with adequate background.
2. CMM 110, 111 and 113 may be taken during different years than indicated here. Some academic majors recommend taking some of these courses during the junior year. See faculty advisor for other sequencing possibilities.
3. Students placed in ENG 114 or 198 must take a three semester hour nonbusiness elective.
4. MTH 102 is recommended to be taken before MATH 128 for students with insufficient knowledge of secondary mathematics. MTH 102 does not count toward minimum graduation requirement.
5. SBA majors must complete six hours of physical and life sciences. Select from biology, chemistry, physics, or geology. Majors may complete two introductory courses from different disciplines. No lab is required.
SBA majors must complete an additional social science course in ANT, CJS, POL, PSY, SOC, or SWK, in addition to completing ECO 203 and 204, and an economics elective.

Students starting Fall 2005: Select from ENG 370, ENG 372, or ENG 378. Student enrolled before Fall 2005: Select from ENG 370, ENG 372, ENG 378, CMM 321, CMM 322, CMM 344, CMM 351, or CMM 420.

A minimum of 54 semester hours of all academic work must be at the 300-400 level.

Minor in International Business (INB)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
</tr>
<tr>
<td>3</td>
<td>ACC 412</td>
<td>INTERNATIONAL ACCOUNTING</td>
</tr>
<tr>
<td>3</td>
<td>ECO 460</td>
<td>ECONOMIC DEVELOPMENT AND GROWTH</td>
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<tr>
<td>3</td>
<td>FIN 450</td>
<td>INTERNATIONAL BUSINESS FINANCE</td>
</tr>
<tr>
<td>3</td>
<td>MGT 403</td>
<td>CROSS-CULTURAL MANAGEMENT</td>
</tr>
<tr>
<td>3</td>
<td>MKT 440</td>
<td>GLOBAL MARKETING</td>
</tr>
</tbody>
</table>

1Approved prerequisites must be completed.

2Students may substitute one course from the following: Any 200, 300 or 400 level language course (Two 100 level courses count as one course.); ANT 315, 351, 352, or 406; BIO 395; CMM 414; ENG 203, 205, 306, 322, 348, 358, or 448; HST 315, 321, 322, 323, 326, 327, 328, 332, 333, 337, 339, 357, 358, 374, 382, or 383; ASI 390 or 398; PBL 355 or 362; POL 202, 214, 320-329, 331, 406, 407, 409, or 410; REL 201, 202, or 345. Other courses may be substituted for the above courses with the permission of the Director of International Business Programs.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>INB 300</td>
<td>TOPICS IN INTERNATIONAL BUSINESS AND CULTURE</td>
<td>1 - 3</td>
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<td>INB 450</td>
<td>SEMINAR IN CURRENT GLOBAL ISSUES</td>
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<td>INB 491</td>
<td>HONORS THESIS</td>
<td>3 - 6</td>
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<td>INB 492</td>
<td>HONORS THESIS</td>
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<tr>
<td>INB 497</td>
<td>INTERNATIONAL INTERNSHIP</td>
<td>1 - 3</td>
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</table>

Comparative analysis of various cultures and their impact on international business operation. May be taken more than once if the topics or cultures change.

Seminar focusing on various contemporary international issues and regions; topics vary. Required of International Business majors and minors and students completing a Certificate in International Business.

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the Honors Program and the International Business program director.

Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the Honors Program and the International Business program director.

Practical international work experience closely associated with student's major, minor, certificate program. Permission of program director required. See internship coordinator for details.
College of Arts and Sciences

(INS) International Studies (Collapse Description)

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 social entrepreneurship. 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

David Darrow, Director
Bilocerkoowycz (Political Science), Carlson (History), Cheney (Anthropology), Fleischmann (History), Huff (Arts & Sciences), Kebede (Philosophy), Krugh (Languages)

Majors/Minors (Collapse All)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Bachelor of Arts with a major in International Studies (Africa in World Affairs Concentration) (INS)</th>
</tr>
</thead>
</table>

International Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ANT 150</td>
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<tr>
<td>ANT 306</td>
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<td>6</td>
</tr>
<tr>
<td>ECO 203</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ECO 204</td>
<td></td>
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<tr>
<td>INS 250</td>
<td>(395 or 495)</td>
<td>5-10</td>
</tr>
<tr>
<td>INS 499</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>POL 202</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>REL 383</td>
<td></td>
<td>3</td>
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<tr>
<td>Select one course from:</td>
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<tr>
<td>ASI</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td>HST</td>
<td>103, 198</td>
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<tr>
<td>Select one course from:</td>
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</tr>
<tr>
<td>PHL</td>
<td>358, 370</td>
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<td>Select one course from:</td>
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<tr>
<td>POL</td>
<td>101, 214</td>
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<td>Select one course from:</td>
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<tr>
<td>HST</td>
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<tr>
<td>POL</td>
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<td>FRN</td>
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<td>SPN</td>
<td>361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
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<td>Foreign language appropriate to concentration</td>
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Concentration (Africa in World Affairs)
ANT 356 3
HST 336, 337, 385 9
PHL 363, 365 6
REL 308 3
SOC 328 3

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 6
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3

Natural Sciences 11

Communication Competencies 0-9

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4Students 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.
5Students 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.
6Must be at 300 level or above and exclusive of literature, film, or culture courses.
The Liberal Studies Curriculum:

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.

Bachelor of Arts with a major in International Studies (Certificate in International Business - Economics/Finance Concentration) (INS)

International Studies 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<td>ANT 150, 306</td>
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<tr>
<td>ECO 203 2, 204 2</td>
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<td>INS 250 3, (395 or 495) 4, 499</td>
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<td>POL 202</td>
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<td>REL 363</td>
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<td>ASI 111</td>
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<td>HST 103, 198</td>
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<td>PHL 358, 370</td>
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</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>POL 101, 214</td>
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<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>HST 375</td>
<td></td>
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<tr>
<td>POL 408</td>
<td></td>
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<tr>
<td>Select one course from:</td>
<td>3</td>
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<tr>
<td>FRN 341, 361, 362, 381, 450, 452</td>
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<tr>
<td>GER 351, 361, 362, 450</td>
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<tr>
<td>ITA 361, 362</td>
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Sem. Hrs. 65-70

1/6/2012 3:07 PM 7/16/2012 3:07 PM
RUS 361  
SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480  

<table>
<thead>
<tr>
<th>Foreign language appropriate to concentration</th>
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<tbody>
<tr>
<td>Concentration (Certificate in International Business - Economics/Finance)</td>
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<tr>
<td>ACC 207, 208</td>
<td>6</td>
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<tr>
<td>FIN 301</td>
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<td>INB 450</td>
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Select two courses from:  
ACC 412  
ECO 460, 461  
FIN 450  

Select two courses from:  
ANT 356  
POL 320, 321  

**Liberal Studies Curriculum**  
**Humanities and Fine Arts**  
**Philosophy and Religious Studies** | 6 |
| **History** | 6 |
| **Literature: English or Foreign Language** | 3 |
| **Creative and Performing Arts** | 3 |
| **Foreign Language and/or Additional Arts and/or Humanities** | 3 |
| **Social Sciences** | 12 |
| **Mathematics (excludes MTH 102, 204, 205)** | 3 |
| **Natural Sciences** | 11 |

**Communication Competencies** | 0-9 |
**Introduction to the University: ASI 150** | 0-1 |

**General Education courses/academic electives to total at least** | 124 |

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1. Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2. This course may double count 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.
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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150, 306</td>
<td>6</td>
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<tr>
<td>ECO 203, 2042</td>
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<tr>
<td>INS 2503, (395 or 495)4, 499</td>
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<tr>
<td>POL 202</td>
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</tbody>
</table>
REL 363
Select one course from:
ASI 111
HST 103, 198
Select one course from:
HST 358, 370
Select one course from:
POL 101, 214
Select one course from:
HST 375
POL 408
Select one course from:
FRN 341, 361, 362, 381, 450, 452
GER 351, 361, 362, 450
ITA 361, 362
RUS 361
SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480
Foreign language appropriate to concentration
Concentration (Certificate in International Business - Marketing/HR)
ACC 207
INB 450
MGT 301
MKT 301
Select two courses from:
ECO 460
MGT 403, 414
MKT 340, 440
Select two courses from:
ANT 356
HST 315, 326, 330, 332, 333, 334, 337, 353, 354, 356, 357,
382, 383
POL 320, 321

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy and Religious Studies
History
Literature: English or Foreign Language
Creative and Performing Arts
Foreign Language and/or Additional Arts and/or Humanities
Social Sciences
Mathematics (excludes MTH 102, 204, 205)
Natural Sciences

Communication Competencies
Introduction to the University: ASI 150

General Education courses/academic electives to total at least

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2This course may double count within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3May substitute CMM 412, HST 301, POL 207, SOC 208 or another approved research methods course.
4Students 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.
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.

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)

<table>
<thead>
<tr>
<th>International Studies¹</th>
<th>Sem. Hrs.</th>
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<tbody>
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<tr>
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<td>INS 250³, (395 or 495)⁴, 499</td>
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<td>REL 363</td>
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<td>Select one course from:</td>
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<tr>
<td>ASI 111</td>
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<tr>
<td>HST 103, 198</td>
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<tr>
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<td>PHL 358, 370</td>
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<td>POL 101, 214</td>
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<td>POL 408</td>
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<td>Select one course from:</td>
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<td>FRN 341, 361, 362, 381, 450, 452</td>
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<tr>
<td>GER 351, 361, 362, 450</td>
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<tr>
<td>ITA 361, 362</td>
<td></td>
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<tr>
<td>RUS 361</td>
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<tr>
<td>SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
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<td>Foreign language appropriate to concentration⁶</td>
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<td>POL 320, 321</td>
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<td>POL 331</td>
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<td>REL 366</td>
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<td>POL 319</td>
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<td>Select one course from:</td>
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<td>VAH 203, 450, 480, 483</td>
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Concentration (Cooperation and Change in the New Europe)

<table>
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<th>Liberal Studies Curriculum</th>
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<tbody>
<tr>
<td>Humanities and Fine Arts</td>
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<td>Philosophy and Religious Studies</td>
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<tr>
<td>History</td>
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<tr>
<td>Literature: English or Foreign Language</td>
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<tr>
<td>Creative and Performing Arts</td>
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<tr>
<td>Foreign Language and/or Additional Arts and/or Humanities</td>
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<tr>
<td>Social Sciences</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
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<tr>
<td>Natural Sciences</td>
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Communication Competencies

<table>
<thead>
<tr>
<th>Component</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
</tr>
<tr>
<td>General Education courses/academic electives to total at least</td>
<td>124</td>
</tr>
</tbody>
</table>

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 206, 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.
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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<td><strong>International Studies</strong></td>
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<td>INS 250(^3), (395 or 495)(^4), 499</td>
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<td>POL 202</td>
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<tr>
<td>HST 103, 198</td>
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<tr>
<td>PHL 358, 370</td>
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<td>Select one course from:</td>
<td>3</td>
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<tr>
<td>POL 101, 214</td>
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<td>Select one course from:</td>
<td>3</td>
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<tr>
<td>HST 375</td>
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<tr>
<td>POL 408</td>
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<td>FRN 341, 361, 362, 381, 450, 452</td>
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<td>GER 351, 361, 362, 450</td>
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<td>ITA 361, 362</td>
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<td>RUS 361</td>
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<td>SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
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<td>Foreign language appropriate to concentration</td>
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<td>REL 304, 305, 306, 308</td>
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Ant 356  
Hst 326, 330, 332, 333, 337, 354, 356, 357, 382, 383  
Pol 321

Liberal Studies Curriculum  
Humanities and Fine Arts  
  Philosophy and Religious Studies 6  
  History 6  
  Literature: English or Foreign Language 3  
  Creative and Performing Arts 3  
  Foreign Language and/or Additional Arts and/or Humanities 3  
Social Sciences 12  
Mathematics (excludes MTH 102, 204, 205) 3  
Natural Sciences 11

Communication Competencies 0-9  
Introduction to the University: ASI 150 0-1  
General Education courses/academic electives to total at least 124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.  
2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.  
3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.  
4Students 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.  
5Students 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.  
6Must 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.

Bachelor of Arts with a major in International Studies (Global Environmental Sustainability Concentration) (INS)

<table>
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<tr>
<th>International Studies</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
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<tr>
<td>ECO 203, 204</td>
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<td>INS 250, (395 or 495), 499</td>
<td>5-10</td>
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<tr>
<td>Pol 202</td>
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<td>ASI 111</td>
<td></td>
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<tr>
<td>HST 103, 198</td>
<td></td>
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<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>PHL 358, 370</td>
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<tr>
<td>Select one course from:</td>
<td>3</td>
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<td>Pol 101, 214</td>
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<tr>
<td>HST 375</td>
<td></td>
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<tr>
<td>Pol 406</td>
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<td>Select one course from:</td>
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<tr>
<td>Frn 341, 361, 362, 381, 450, 452</td>
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<tr>
<td>Ger 351, 361, 362, 450</td>
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<tr>
<td>Ita 361, 362</td>
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<tr>
<td>Rus 361</td>
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<tr>
<td>Spn 361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
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Foreign language appropriate to concentration 6
Concentration (Global Environmental Sustainability)
ASI 320 3
ECO 310 3
ENG 342 3
HST 342 3
POL 371 3
Select one course from: 3
BIO 359, 360, 395
Select one course from:
PHL 321
REL 365, 472
Select one course from:
ANT 356
HST 326, 330, 332, 333, 337, 357, 382, 383
POL 320, 321

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy and Religious Studies 6
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4Students 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.
5Students 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.
6Must 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.
7This course counts for biology majors, but is accessible to non-majors as well.
8This 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 1
ANT 150, 306 6
ECO 203, 204 6
INS 250, (395 or 495) 5
POL 202 3

Sem. Hrs. 65-70
REL 363  
Select one course from:
- ASI 111  
- HST 103, 198  
Select one course from:
- PHL 358, 370  
Select one course from:
- POL 101, 214  
Select one course from:
- HST 375  
- POL 408  
Select one course from:
- FRN 341, 361, 362, 381, 450, 452  
- GER 351, 361, 362, 450  
- ITA 361, 362  
- RUS 361  
- SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480  
Foreign language appropriate to concentration

Concentration (International Journalism)  
- CMM 330, 331, 350, 355  
- CMS 414  
- SOC 343  
Select one course from:
- ANT 355  
- POL 320, 321  
Select one course from:
- PHL 355, 363, 365  

Liberal Studies Curriculum

<table>
<thead>
<tr>
<th>Humanities and Fine Arts</th>
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<tbody>
<tr>
<td>Philosophy and Religious Studies</td>
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<tr>
<td>Literature: English or Foreign Language</td>
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<td>Creative and Performing Arts</td>
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<tr>
<td>Social Sciences</td>
<td>12</td>
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<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
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<tr>
<td>Natural Sciences</td>
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</table>

Communication Competencies

Introduction to the University: ASI 150

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.

Students may substitute CMM 315, CMM 439, CMM 448, 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.

Bachelor of Arts with a major in International Studies (Marianist Social Transformation Concentration) (INS)

<table>
<thead>
<tr>
<th>International Studies</th>
<th>66-71</th>
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<tbody>
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<td>ANT 150, 306</td>
<td>6</td>
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<td>ECO 203, 204</td>
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<tr>
<td>INS 250, (395 or 495), 499</td>
<td>5-10</td>
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<tr>
<td>POL 202</td>
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<td>POL 408</td>
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<td>SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
<td></td>
</tr>
<tr>
<td>Foreign language appropriate to concentration</td>
<td>6</td>
</tr>
</tbody>
</table>

Concentration (Marianist Social Transformation)

| ASI 358, (374 or 375) | 6 |
| MST 210, (310 or 311 or 312) | 4 |
| Select two courses from: | 6 |
| PHL 327, 356 |       |
| POL 333 |       |
| REL 323, 324, 358 |       |
| SOC 334, 339, 371 |       |
| Select one course from: | 3 |
| PHL 355, 363, 365 |       |
| REL 304, 305, 306, 307, 308 |       |
| Select two courses from: | 6 |
| ANT 356 |       |
| POL 320, 321 |       |

Liberal Studies Curriculum

Humanities and Fine Arts

| Philosophy and Religious Studies | 6 |
| History | 6 |
| Literature: English or Foreign Language | 3 |
| Creative and Performing Arts | 3 |
| Foreign Language and/or Additional Arts and/or Humanities | 3 |

Social Sciences | 12 |

Mathematics (excludes MTH 102, 204, 205) | 3 |

Natural Sciences | 11 |
Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
**General Education courses/academic electives to total at least** 124

1. 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. 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.
7. 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.

Bachelor of Arts with a major in International Studies (Migration Concentration) (INS)

<table>
<thead>
<tr>
<th>International Studies ¹</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150, 306</td>
<td>6</td>
</tr>
<tr>
<td>ECO 203, 204²</td>
<td>6</td>
</tr>
<tr>
<td>INS 250 3, 499</td>
<td>5-10</td>
</tr>
<tr>
<td>POL 202</td>
<td>3</td>
</tr>
<tr>
<td>REL 383</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>ASI 111</td>
<td>3</td>
</tr>
<tr>
<td>HST 103, 198</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>PHL 358, 370</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>POL 101, 214</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>HST 375</td>
<td>3</td>
</tr>
<tr>
<td>POL 408</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>FRN 341, 361, 362, 361</td>
<td>3</td>
</tr>
<tr>
<td>GER 351, 361, 362, 450</td>
<td></td>
</tr>
<tr>
<td>ITA 361, 362</td>
<td></td>
</tr>
<tr>
<td>RUS 361</td>
<td></td>
</tr>
<tr>
<td>SPN 361, 362, 363, 363</td>
<td></td>
</tr>
<tr>
<td>Foreign language appropriate to concentration ⁶</td>
<td>6</td>
</tr>
<tr>
<td>Concentration (Migration)</td>
<td></td>
</tr>
<tr>
<td>HST 378</td>
<td>3</td>
</tr>
<tr>
<td>POL 333</td>
<td>3</td>
</tr>
<tr>
<td>SOC 328</td>
<td>3</td>
</tr>
<tr>
<td>- - - (ANT 368 or SOC 368)</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>POL 334</td>
<td>3</td>
</tr>
<tr>
<td>SOC 371</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>PHL 355, 363, 365</td>
<td>3</td>
</tr>
<tr>
<td>REL 304, 305, 306, 307, 308</td>
<td></td>
</tr>
<tr>
<td>Select two courses from:</td>
<td></td>
</tr>
<tr>
<td>ANT 356</td>
<td>6</td>
</tr>
</tbody>
</table>

¹ This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
² May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
³ 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.
⁴ 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.
⁵ 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.
⁶ 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.
POL 320, 321, 331

Liberal Studies Curriculum

Humanities and Fine Arts
Philosophy and Religious Studies 6
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4Students 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.
5Students 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.
6Must 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.

Bachelor of Arts with a major in International Studies (Peace and Global Security Concentration) (INS)

International Studies1

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 150, 306</td>
<td>6</td>
</tr>
<tr>
<td>ECO 2032, 204</td>
<td>6</td>
</tr>
<tr>
<td>INS 2503, (395 or 495)4, 499</td>
<td>5-10</td>
</tr>
<tr>
<td>POL 202</td>
<td>3</td>
</tr>
<tr>
<td>REL 363</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>ASI 111</td>
<td>3</td>
</tr>
<tr>
<td>HST 103, 198</td>
<td></td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>PHL 358, 370</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>POL 101, 214</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>HST 375</td>
<td>3</td>
</tr>
<tr>
<td>POL 408</td>
<td></td>
</tr>
<tr>
<td>Select one course from:5</td>
<td></td>
</tr>
<tr>
<td>FRN 341, 361, 362, 381, 450, 452</td>
<td>3</td>
</tr>
<tr>
<td>GER 351, 361, 362, 450</td>
<td></td>
</tr>
<tr>
<td>ITA 361, 362</td>
<td></td>
</tr>
<tr>
<td>RUS 361</td>
<td></td>
</tr>
<tr>
<td>SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480</td>
<td></td>
</tr>
</tbody>
</table>
Foreign language appropriate to concentration 6

Concentration (Peace and Global Security)

ANT 320 3
POL 335, 406, 452 9
Select one course from:
   HST 348, 373 3
Select one course from:
   PHL 317, 327 3
Select one course from:
   ANT 356 3
   HST 324, 326, 327, 332, 333, 334, 337, 357 3
   POL 320, 321, 331 3
Select one course from:
   PHL 355, 363, 365 3

Liberal Studies Curriculum

Humanities and Fine Arts

   Philosophy and Religious Studies 6
   History 6
   Literature: English or Foreign Language 3
   Creative and Performing Arts 3
   Foreign Language and/or Additional Arts and/or Humanities 3

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.
3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.
4Students 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.
5Students 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.
6Must 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.

Bachelor of Arts with a major in International Studies (Women's and Gender Issues in a Global Context Concentration) (INS)

Sem. Hrs. 65-70

International Studies 6

ANT 150, 306 6
ECO 203, 204 6
INS 250, (365 or 495), 499 5-10
POL 202 3
REL 363 3
Select one course from:
   ASI 111 3
   HST 103, 198 3

13 of 16
Select one course from:  
PHL 358, 370  
Select one course from:  
POL 101, 214  
Select one course from:  
HST 375  
POL 408  
Select one course from:  
FRN 341, 361, 362, 381, 450, 452  
GER 351, 361, 362, 450  
ITA 361, 362  
RUS 361  
SPN 361, 362, 363, 364, 380, 450, 451, 471, 472, 480  
Foreign language appropriate to concentration  
6

Concentration (Women's and Gender Issues in a Global Context)  
WGS 150, 310  
Select one course from:  
REL 471, 474  
Select one course from:  
SOC 322, 332  
Select one course from:  
SOC 339, 371  
Select one course from:  
PFL 307, 364  
Select one course from:  
HST 353, 354, 356  
Select one course from:  
ANT 356  
HST 328, 330, 332, 333, 337, 357, 362, 383  
PGL 320, 321

Liberal Studies Curriculum  

Humanities and Fine Arts  

Philosophy and Religious Studies  
6

History  
6

Literature: English or Foreign Language  
3

Creative and Performing Arts  
3

Foreign Language and/or Additional Arts and/or Humanities  
3

Social Sciences  
12

Mathematics (excludes MTH 102, 204, 205)  
3

Natural Sciences  
11

Communication Competencies  
0-9

Introduction to the University: ASI 150  
0-1

General Education courses/academic electives to total at least  
124

1Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.

2This course may count double within the major for students who opt to fulfill their concentration with one of the certificates in International Business.

3May substitute CMM 412, HST 301, POL 207, SOC 208, or another approved research methods course.

4Students 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.

5Students 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.

Minor in International Studies (INS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Studies</td>
<td></td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>ECO 204</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>POL 214</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>LNG elective (202-level or higher)</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select twelve additional semester hours (300- or 400-level)</td>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INS 250</td>
<td>RESEARCH METHODS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>An introduction to the practice of locating and discussing finding aids and source materials needed to conduct research on international topics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Permission of program director.</td>
<td></td>
</tr>
<tr>
<td>INS 390</td>
<td>MODEL UNITED NATIONS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Examination of the work and procedures of the United Nations and its constituent bodies, study of various international issues and policies of member states, as well as of parliamentary diplomatic practices such as caucusing, resolution writing, and speech making in preparation for participation in Model United Nations simulations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>INS 395</td>
<td>INTERNATIONAL EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Orientation for and evaluation of study abroad, internship, immersion, work, or service experience in a foreign country, organization involved in international activities, or a cross-cultural setting in the United States. Grading Option Two only.</td>
<td></td>
</tr>
<tr>
<td>INS 399</td>
<td>INDEPENDENT STUDY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Independent reading and research on an interdisciplinary topic in international studies chosen by the student in consultation with one or more faculty members. May be repeated.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Permission of program director.</td>
<td></td>
</tr>
<tr>
<td>INS 433</td>
<td>SEMINAR ON HUMAN RIGHTS SERVICE</td>
<td>1</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> (PHL 371 or POL 333); junior standing.</td>
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<tr>
<td>INS 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Approval of University Honors Program.</td>
<td></td>
</tr>
<tr>
<td>INS 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic</td>
<td></td>
</tr>
</tbody>
</table>
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 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 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.
College of Arts and Sciences

(LNG) Languages (Collapse Description)

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 (see CLA, HMS, FRN 350, 352, GER 350, 351, and SPN 350, 380).

Each summer, the Department of Languages conducts one-month language-immersion study programs in France, Germany, and Latin America or Spain (alternate years). Participants in these programs can earn up to seven semester hours of language credit at the advanced level.

Students in B.A. programs can acquire teacher licensure in French, German, or Spanish through the Ed or EdA 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: Conard, O'Meara, Romaguera
Professors: Castro, Peñas-Bermejo
Associate Professors: Cavour, Krugh, Mosher
Assistant Professors: Chiolo, Costales, Work
Lecturers: Figueroa, Hardman, Hatch, Tello-Sánchez, Schellhammer, Tanova, Williams

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in French (FRN)

<table>
<thead>
<tr>
<th>French 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FRN (311 or 312), (321 or 322)</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses, including at least one in literature, from:</td>
<td></td>
</tr>
<tr>
<td>FRN 341, 360, 361, 362, 381, 450, 452</td>
<td></td>
</tr>
<tr>
<td>FRN electives (300- or 400-level) 1</td>
<td>12</td>
</tr>
<tr>
<td>LNG 495</td>
<td>1</td>
</tr>
</tbody>
</table>
Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies: 12
- History: 6
- Creative and Performing Arts: 3
- Foreign Language and/or Additional Arts and/or Humanities: 3
- Social Sciences: 12
- Literature: English or Foreign Language: 3
- Mathematics (excludes MTH 102, 204, 205): 3
- Natural Sciences: 11

Communication Competencies: 0-9
Introduction to the University: ASI 150: 0-1

General Education courses/academic electives to total at least: 124

Bachelor of Arts with a major in German (GER)

Sem. Hrs. 25-39

German

GER (311 or 312), (321 or 322): 6
Select two courses, including at least one in literature, from:
- GER 341, 361, 362, 450: 6
- GER electives (300- or 400-level): 12
- LNG 495: 1

Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies: 12
- History: 6
- Creative and Performing Arts: 3
- Foreign Language and/or Additional Arts and/or Humanities: 3
- Social Sciences: 12
- Literature: English or Foreign Language: 3
- Mathematics (excludes MTH 102, 204, 205): 3
- Natural Sciences: 11

Communication Competencies: 0-9
Introduction to the University: ASI 150: 0-1

General Education courses/academic electives to total at least: 124

Bachelor of Arts with a major in Languages (LNG)

Sem. Hrs. 25-39

Languages

- Composite major in Languages: 24
- LNG 495: 1
Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3

Social Sciences 12

Literature: English or Foreign Language 3
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1Students 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.

2Upper-level courses to total twenty-four semester hours distributed between two languages. Courses must include at least one three-semester-hour literature course, not including literature in translation. (Only one literature in translation may count toward the major.)

Bachelor of Arts with a major in Spanish (SPN)

<table>
<thead>
<tr>
<th>Spanish</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN (311 or 312), (321 or 322)</td>
<td>6</td>
</tr>
<tr>
<td>Select two courses, at least one in literature, from:</td>
<td>6</td>
</tr>
<tr>
<td>SPN 341, 342, 361, 362, 363, 364, 450, 451, 471, 472</td>
<td></td>
</tr>
<tr>
<td>SPN electives</td>
<td>12</td>
</tr>
<tr>
<td>LNG 495</td>
<td>1</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities 3

Social Sciences 12

Literature: English or Foreign Language 3
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 124

1Only one literature in translation course may count toward the major. Students in the E11A program should note that courses in translation do not count toward the forty-five semester hours of a foreign language required for teacher certification.

Minor in French (FRN)

<table>
<thead>
<tr>
<th>French</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

7/16/2012 3:08 PM
Select twelve semester hours (300- or 400-level)

Minor in German (GER)

German

Select twelve semester hours (300- or 400-level)

Minor in Italian (ITA)

Italian

Select twelve semester hours (300- or 400-level)

Minor in Spanish (SPN)

Spanish

Select twelve semester hours (300- or 400-level)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARA 101</td>
<td>BASIC PROFICIENCY IN ARABIC I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ARA 141</td>
<td>BASIC PROFICIENCY IN ARABIC II</td>
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<td>Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. <strong>Prerequisite(s):</strong> ARA 101 or placement by examination.</td>
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<tr>
<td>ARA 201</td>
<td>INTERMEDIATE ARABIC I</td>
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<td>Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. <strong>Prerequisite(s):</strong> ARA 141 or placement by examination.</td>
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<tr>
<td>ARA 202</td>
<td>INTERMEDIATE ARABIC II</td>
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<td></td>
<td>Continued development of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises. <strong>Prerequisite(s):</strong> ARA 201 or placement by examination.</td>
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<tr>
<td>CHI 101</td>
<td>BASIC PROFICIENCY IN MANDARIN CHINESE I</td>
<td>4</td>
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<td>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.</td>
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<tr>
<td>CHI 141</td>
<td>BASIC PROFICIENCY IN MANDARIN CHINESE II</td>
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<td>Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Successful completion of this course includes the demonstration of the proficiency level required by the College of Arts and Sciences' Liberal Studies Curriculum. <strong>Prerequisite(s):</strong> CHI 101 or placement by examination.</td>
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<tr>
<td>CHI 201</td>
<td>INTERMEDIATE MANDARIN CHINESE I</td>
<td>4</td>
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</table>
Expansion and extension of proficiency and intercultural skills in reading, listening, writing, and speaking through conversation practice, reading assignments, composition assignments, and grammar exercises.  
**Prerequisite(s):** CHI 141 or placement by examination.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
</table>
| CHI 202     | INTERMEDIATE MANDARIN CHINESE II                  | 4       | 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. |                     |
| FRN 101     | BASIC PROFICIENCY IN FRENCH I                     | 4       | 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 101 or 131      |
| FRN 131     | INTENSIVE FUNDAMENTAL FRENCH                      | 2       | 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 131. |                     |
| FRN 141     | BASIC PROFICIENCY IN FRENCH II                    | 4       | Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Successful completion of this course includes the demonstration of the proficiency level as described by the College of Arts and Sciences' Liberal Studies Curriculum.  
**Prerequisite(s):** (FRN 101 or 131) or placement by examination. |                     |
| FRN 201     | INTERMEDIATE FRENCH I                             | 3       | Development of reading, listening, writing, and speaking skills. Language laboratory required.  
**Prerequisite(s):** FRN 141. |                     |
| FRN 202     | INTERMEDIATE FRENCH II                            | 3       | Development of reading, listening, writing, and speaking skills. Language laboratory required.  
**Prerequisite(s):** FRN 201. |                     |
| FRN 270     | INTERMEDIATE STUDY ABROAD                         | 1-7     | 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 CONVERSATION I                             | 3       | Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture.  
**Prerequisite(s):** FRN 202. |                     |
| FRN 312     | FRENCH CONVERSATION II                            | 3       | Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture.  
**Prerequisite(s):** FRN 202. |                     |
| FRN 321     | FRENCH COMPOSITION I                              | 3       | Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose.  
**Prerequisite(s):** FRN 311 or 312. |                     |
FRN 322 FRENCH COMPOSITION II
Practice in composition on topics dealing with French life and culture. Systematic vocabulary enrichment, refinement of grammar, and assimilation of stylistic patterns. Emphasis on correct writing and creativity. Initiation into the concept of style in French prose. **Prerequisite(s):** FRN 311 or 312.

FRN 325 INTRODUCTION TO COMMERCIAL FRENCH
Introduction to French business and the French position in international trade. Basic vocabulary of the office and the world of trade, introduction to formal correspondence and transactions. **Prerequisite(s):** FRN 311 or 312.

FRN 331 FRENCH PHONETICS AND DICTION
Formation of the sounds of French, rules of pronunciation, use of phonetic transcription, practical exercises in interpretive reading. Recommended for French majors and required for prospective teachers. **Prerequisite(s):** FRN 311 or 312.

FRN 341 FRENCH CULTURE AND CIVILIZATION
Introduction to the history of French civilization with emphasis on the arts and life in each major cultural period. Recommended for all French majors and minors. **Prerequisite(s):** FRN 311 or 312.

FRN 350 FRENCH LITERATURE IN TRANSLATION
Course to acquaint students with major topics in French and Francophone literature. Conducted in English. Repeatable when subtitle and content change.

FRN 352 OLD WORLD MEETS NEW (ENG)
Readings of (1) non-fictional narratives regarding French encounters with American Indians in the sixteenth and seventeenth centuries and (2) literary and philosophical works on this topic. Conducted in English. Students receive credit for either FRN 352 or FRN 452, not both.

FRN 360 EXPlication DE textes
Introduction to method of analyzing literary texts, both prose and poetry. Elements of French versification. Recommended for all French majors and prospective teachers. **Prerequisite(s):** FRN 311 or 312.

FRN 361 SURVEY OF FRENCH LITERATURE I
Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers. **Prerequisite(s):** FRN 311 or 312.

FRN 362 SURVEY OF FRENCH LITERATURE II
Major texts, trends, authors from the Middle Ages to the present, showing influences and continuity. Lectures, discussions, oral and written reports. Recommended for all French majors and prospective teachers. **Prerequisite(s):** FRN 311 or 312.

FRN 370 ADVANCED STUDY ABROAD
Advanced intensive study in a foreign country/region whose everyday language is French, treating its language, culture, and civilization. Conducted in French. Available only during the summer session. Repeatable when subtitle and content change. **Prerequisite(s):** FRN 202 or equivalent.

FRN 381 HISTORY OF FRENCH CINEMA
A survey of the trends, styles, and principal directors in the history of French cinema. Discussion of personal, social, and cultural values portrayed in films. **Prerequisite(s):** FRN 311 or 312.
FRN 450  FRENCH LITERATURE
Lectures and discussion concentrating on specialized genres, periods, or authors. Repeatable when subtitle and content change.
Prerequisite(s): FRN 311 or 312.

FRN 452  OLD WORLD MEETS NEW (FRN)
Readings of (1) non-fictional narratives regarding French encounters with American Indians in the 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 312.

FRN 459  FRENCH LINGUISTICS
A synchronic analysis of modern French language, including a contrast of the French sound system, morphology, and syntax with English structures; the historical derivation of French, creolization, and approaches to teaching French to English-speaking persons. Conducted in French.
Prerequisite(s): (FRN 311 or 312); LNG 468.

FRN 477  HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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
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.

GER 101  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  INTENSIVE FUNDAMENTAL GERMAN
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: GER 101 or 131.

GER 141  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. Successful completion of this course includes the demonstration of the proficiency level as described by the College of Arts and Sciences' Liberal Studies Curriculum.
Prerequisite(s): (GER 101 or 131) or placement by examination.

GER 201  INTERMEDIATE GERMAN I
Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture.

Prerequisite(s): GER 141.

GER 202 INTERMEDIATE GERMAN II
Systematic grammar review. Increased use of the language in written exercises and classroom discussions based on readings. Exposure to the development of German civilization and culture.

Prerequisite(s): GER 201.

GER 311 GERMAN CONVERSATION I
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 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 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 312.

GER 322 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 312.

GER 325 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 312) or equivalent.

GER 341 GERMAN CULTURE AND CIVILIZATION
Introduction to German culture and civilization with emphasis on the arts, intellectual developments, and life in various periods of German history. Conducted in German.

Prerequisite(s): GER 311 or 312.

GER 342 GERMANY AND THE NEW EUROPE
Examination of developments in the life and culture, and the political, economic, and social realities in Germany from the end of WWI to the reunited country of today which is the largest member of EU. Course also explores the ideas and ideals on which the EU is founded, its present influence in the world, and how this new Europe differs from the United States of America. Conducted in German.
Prerequisite(s): (GER 311 or 312) or equivalent.

GER 350 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
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 312.

GER 357 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 312); (GER 321 or 322)) or equivalent.

GER 358 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 312); (GER 321 or 322)) or equivalent.

GER 370 STUDY ABROAD
Intensive study in a foreign country whose everyday language is German, treating the culture and civilization of the country. Conducted in German. Available only during the summer session. Repeatable when subtitle and content change. Prerequisite(s): GER 202.

GER 450 GERMAN LITERATURE
Lectures and discussions in German in such specialized areas as Medieval lyric, Romanticism, twentieth-century novel, modern drama, and individual authors. Repeatable when subtitle and content change. Prerequisite(s): GER 311 or 312.

GER 469 GERMAN LINGUISTICS
A synchronic analysis of modern German language, including a contrast of the German sound system, morphology, and syntax with English structures; the historical derivation of German, the modern German dialects, and approaches to teaching German to English-speakers. Conducted in German. Prerequisite(s): (GER 311 or 312); LNG 468.

GER 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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
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.

HND 101  BEGINNING HINDI I 3
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 101 restricted to those who have not studied Hindi or have placed into that course by examination. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only one of the following: HND 101-102 or HND 121.

HND 102  BEGINNING HINDI II 3
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. Admission to 102 is open only to those who have successfully completed 101. Offered only in India in connection with the B.A. Program in Philosophy. Credit is granted for only one of the following: HND 101-102 or HND 121.

HND 121  ELEMENTARY HINDI 4
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 101-102 or HND 121.

HND 141  BASIC PROFICIENCY IN HINDI 3
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
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
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.

ITA 101  BEGINNING ITALIAN 4
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use. No previous study of Italian is presupposed.

ITA 101A  BEGINNING ITALIAN I 2
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use.

ITA 101B  BEGINNING ITALIAN II 2
Development of fundamental communication skills in reading, listening, writing, and speaking through extensive practice in language use.
Prerequisite(s): ITA 101A.
ITA 141  BASIC PROFICIENCY IN ITALIAN
Further development of communication skills in reading, listening, writing, and speaking. Admission by the successful completion of 101 or permission. Successful completion of this course includes demonstration of the minimal level of proficiency required for the College of Arts and Sciences' Liberal Studies Curriculum.
Prerequisite(s): ITA 101 or permission of instructor.

ITA 201  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.
Prerequisite(s): ITA 141.

ITA 202  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 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 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  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 342  ITALIAN CULTURE AND CIVILIZATION II
Survey of the major historical and cultural events in Italy from the Middle Ages to the present. All readings, lectures, discussion, reports, and tests are in Italian. ITA 341 and 342 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 361  SURVEY OF ITALIAN LITERATURE I
Italian literature from its beginnings in the 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 362 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 362  SURVEY OF ITALIAN LITERATURE II
Italian literature from its beginnings in the 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 362 may be taken in either sequence.
Prerequisite(s): ITA 202.

ITA 491  INDEPENDENT STUDY
Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson.
Prerequisite(s): ITA 202 or permission of instructor.

LAT 101  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 INTENSIVE FUNDAMENTAL LATIN
Intensive development of fundamental skills in reading, listening, and writing 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: LAT 101 or 131.

LAT 141 BASIC PROFICIENCY IN LATIN II
Further development of fundamental skills in reading, listening, and writing through extensive practice in language use. Successful completion of this course includes the demonstration of the proficiency level as described by the College of Arts and Sciences' Liberal Studies Curriculum.
Prerequisite(s): (LAT 101 or 131) or placement by examination.

LAT 201 INTERMEDIATE LATIN I
Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid.
Prerequisite(s): LAT 141.

LAT 202 INTERMEDIATE LATIN II
Systematic review of grammar, exercises in vocabulary development, readings from Caesar, Cicero, Virgil, or Ovid.
Prerequisite(s): LAT 201.

LAT 321 LATIN COMPOSITION AND SYNTAX
Practice in writing Latin, for enrichment of vocabulary, refinement of grammar, and control of major Latin prose styles.
Prerequisite(s): LAT 202.

LAT 350 LATIN LITERATURE
Advanced readings in a particular author or genre (epic, drama, history, philosophy). Repeatable when subtitle and content change.
Prerequisite(s): LAT 202.

LAT 491 INDEPENDENT STUDY
Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson.
Prerequisite(s): LAT 202 or permission of department chairperson.

LNG 101 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 101 only). Offered with different suffixes according to the language studied.

LNG 141 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 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.
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<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>LNG 202</td>
<td>INTERMEDIATE LANGUAGE II</td>
<td>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.</td>
<td>LNG 201 in the same language or equivalent.</td>
</tr>
<tr>
<td>LNG 320</td>
<td>INSTRUCTED SECOND LANGUAGE ACQUISITION</td>
<td>Study of cognitive, linguistic, sociolinguistic, and constructivist approaches to instructed second language acquisition, including the relationship between classroom interaction and language acquisition.</td>
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<tr>
<td>LNG 330</td>
<td>TEACHING WORLD LANGUAGES IN THE ELEMENTARY SCHOOL (PK-6)</td>
<td>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.</td>
<td>EDT 110; at least two 300-level courses in the language to be taught.</td>
</tr>
<tr>
<td>LNG 468</td>
<td>INTRODUCTION TO LINGUISTICS</td>
<td>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.</td>
<td>CMM 110 or equivalent; ENG 102 or equivalent.</td>
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<tr>
<td>LNG 477</td>
<td>HONORS THESIS PROJECT</td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
<td>Approval of University Honors Program.</td>
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<td>LNG 478</td>
<td>HONORS THESIS PROJECT</td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
<td>Approved 477; approval of University Honors Program.</td>
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<tr>
<td>LNG 495</td>
<td>THE LANGUAGE MAJOR IN PROFESSIONAL CAREERS</td>
<td>Exploration of life-long learning opportunities to maintain and increase functional proficiency in the language studied; the relationship between language proficiency and cross-cultural studies and the application of language proficiency in the workplace; determination of the student's proficiency-level at the conclusion of the undergraduate experience. Required of declared majors in languages (FRN, GER, LNG, and SPN). Taught in English.</td>
<td>Completion of 18 credit hours of upper-division courses in language major.</td>
</tr>
<tr>
<td>RUS 101</td>
<td>BASIC PROFICIENCY IN RUSSIAN I</td>
<td>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.</td>
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<tr>
<td>RUS 141</td>
<td>BASIC PROFICIENCY IN RUSSIAN II</td>
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Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. 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 101 or placement by examination.

**RUS 201** INTERMEDIATE RUSSIAN I

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry.

**Prerequisite(s):** RUS 141.

**RUS 202** INTERMEDIATE RUSSIAN II

Review of the essentials of grammar, intensive conversation and comprehension exercises, reading of graded modern and contemporary prose and poetry.

**Prerequisite(s):** RUS 201.

**RUS 311** RUSSIAN CONVERSATION I

Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 and 312 may be taken in either sequence.

**Prerequisite(s):** RUS 202.

**RUS 312** RUSSIAN CONVERSATION II

Vocabulary development, pattern drills, and the use of idioms in discussion and oral reports centered on Russian life and culture. RUS 311 and 312 may be taken in either sequence.

**Prerequisite(s):** RUS 202.

**RUS 321** RUSSIAN COMPOSITION

Practice in composition on topics dealing with Russian life and culture; personal and business letters. Short weekly assignments to build vocabulary and control of idioms.

**Prerequisite(s):** RUS 202.

**RUS 361** SURVEY OF RUSSIAN LITERATURE

Russian literature and its development during the nineteenth and twentieth centuries. Study of exemplary works and literary movements.

**Prerequisite(s):** RUS 202.

**RUS 491** INDEPENDENT STUDY

Independent study under the guidance of an instructor. Admission to course and number of semester hours require approval of chairperson. Repeatable when content changes.

**SPN 101** 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

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 131.

**SPN 141** 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. Successful completion of this course includes the demonstration of the proficiency level as described by the College of Arts and Sciences' Liberal Studies Curriculum.

**Prerequisite(s):** (SPN 101 or 131) or placement by examination.
SPN 201 INTERMEDIATE SPANISH I
Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required. 
Prerequisite(s): SPN 141.

SPN 202 INTERMEDIATE SPANISH II
Intensive development of the basic principles of Spanish through writing and conversation, stressing fluency. Language laboratory required. 
Prerequisite(s): SPN 201.

SPN 270 STUDY ABROAD
Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change. 
Prerequisite(s): SPN 141 or equivalent.

SPN 311 SPANISH CONVERSATION I
Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world. 
Prerequisite(s): SPN 202.

SPN 312 SPANISH CONVERSATION II
Development of fluency in the vocabulary and idioms of the spoken language through discussion of topics related to contemporary life in the Hispanic world. 
Prerequisite(s): SPN 311.

SPN 321 SPANISH COMPOSITION I
Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish. 
Prerequisite(s): SPN 311 or 312.

SPN 322 SPANISH COMPOSITION II
Practice in composition on a variety of topics. Systematic refinement and mastery of grammar and assimilation of stylistic patterns. Emphasis on developing facility in writing clearly and correctly in Spanish. 
Prerequisite(s): SPN 321.

SPN 325 COMMERCIAL SPANISH
Introduction to commercial correspondence as a basis for developing skills in writing Spanish business letters and other correspondence. 
Prerequisite(s): SPN 311 or 312.

SPN 341 SPANISH CULTURE AND CIVILIZATION
Readings and discussions on the historical, social, political, and cultural phenomena of Spain. Conducted in Spanish. 
Prerequisite(s): SPN 311 or 312.

SPN 342 IBERO-AMERICAN CULTURE AND CIVILIZATION
Readings and discussions on the historical, social, political, and cultural phenomena of Ibero-America. Conducted in Spanish. 
Prerequisite(s): SPN 311 or 312.

SPN 350 HISPANIC LITERATURE IN TRANSLATION
Course to acquaint students with major Spanish and Spanish-American writers and literary movements. Conducted in English. Repeatable when subtitle and content change.

SPN 361 SURVEY OF SPANISH LITERATURE I
Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the twentieth century. Lectures, discussions, and assignments in Spanish. 
Prerequisite(s): SPN 311 or 312.
SPN 362  SURVEY OF SPANISH LITERATURE II  
Readings and analysis of the works of major Spanish authors and discussion of the principal literary trends in Spain from the Middle Ages to the twentieth century. Lectures, discussions, and assignments in Spanish.  
**Prerequisite(s):** SPN 311 or 312.

SPN 363  SURVEY OF SPANISH-AMERICAN LITERATURE I  
Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Discovery and Conquest through Realism and Naturalism. Conducted in Spanish.  
**Prerequisite(s):** SPN 311 or 312.

SPN 364  SURVEY OF SPANISH-AMERICAN LITERATURE II  
Readings and analysis of the works of major Spanish-American authors and discussion of the principal literary trends in Spanish America from Modernism through the present day. Conducted in Spanish.  
**Prerequisite(s):** SPN 311 or 312.

SPN 370  STUDY ABROAD  
Intensive study in a foreign country whose everyday language is Spanish, treating the culture and civilization of the country. Conducted in Spanish. Available only during the summer session. Repeatable when subtitle and content change.  
**Prerequisite(s):** SPN 202.

SPN 380  SPANISH AND IBERO-AMERICAN CINEMA  
Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (Socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in English.  
**Prerequisite(s):** ENG 102 or equivalent.

SPN 450  TOPICS IN SPANISH LITERATURE  
Lectures and discussions concentrating on specialized genres, periods, or authors of Peninsular literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change.  
**Prerequisite(s):** SPN 311 or 312.

SPN 451  TOPICS IN SPANISH-AMERICAN LITERATURE  
Lectures and discussions concentrating on specialized genres, periods, or authors of Spanish-American literature prior to the twentieth century. Conducted in Spanish. Repeatable when subtitle and content change.  
**Prerequisite(s):** SPN 311 or 312.

SPN 469  SPANISH LINGUISTICS  
A synchronic analysis of modern Spanish language, including a contrast of the Spanish sound system, morphology, and syntax with English structures; the historical derivation of Spanish, the modern Spanish dialects (Spain and Latin America), and approaches to teaching Spanish to English speakers. Conducted in Spanish.  
**Prerequisite(s):** LNG 468; (SPN 311 or 312).

SPN 471  TOPICS IN SPANISH LITERATURE OF THE 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 312.

SPN 472  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 312.

SPN 477  HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons.

Prerequisite(s): Approval of University Honors Program.

**SPN 478 HONORS THESIS PROJECT**

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

**SPN 480 SPANISH AND IBERO-AMERICAN CINEMA**

Introduction to cinematography and culture of Spanish and Ibero-American countries, emphasizing themes related to human rights (socioeconomic, class, sexuality, gender, ethnicity), as well as critical and theoretical perspectives on films from these regions. Conducted in Spanish.

Prerequisite(s): SPN 312 or equivalent; SPN 342 recommended.

**SPN 491 INDEPENDENT STUDY**

1-3

Independent research project under the guidance of an instructor. Admission to project and number of semester hours require approval of chairperson.

Prerequisite(s): SPN 202; permission of department chairperson.

**SPN 497 SERVICE LEARNING EXPERIENCE**

1-3

Supervised service experience or project which requires the use of Spanish. Repeatable up to a total of three semester hours.

Prerequisite(s): SPN 311 or equivalent.
School of Business Administration
(MGT) Management and Marketing (Collapse Description)
The management program offered by the management/marketing department includes a major or minor in two distinct areas: leadership and entrepreneurship. 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, Schenk
Assistant Professors: Meek, Sullivan
Lecturers: Chelle, Fortani, Gentner, Miller
Adjunct Faculty: Csokasy, Dudon, Franks, Kairis, Neff, Wood

Sub-Categories / Concentrations / Focus Areas
Entrepreneurship  Leadership  Marketing

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 201</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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 responsibility of businesses to clients and customers, and liability issues. <strong>Prerequisite(s):</strong> Sophomore standing.</td>
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<tr>
<td>MGT 220</td>
<td>ENTREPRENEURSHIP SOPHOMORE EXPERIENCE I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>First of two-course sequence. Designed to immerse Entrepreneurship major into the dynamics of starting and running a micro-business. Focuses on identifying market need, researching financial viability of a business venture to meet that need, and marshalling the resources (among them, financial, human, technical, and motivational) to launch the business. Course is coordinated through the Crotty Center for Entrepreneurial Leadership. <strong>Prerequisite(s):</strong> Entrepreneurship major; sophomore standing; overall 2.7 GPA. <strong>Corequisite(s):</strong> ACC 207; MGT 201.</td>
<td></td>
</tr>
<tr>
<td>MGT 221</td>
<td>ENTREPRENEURSHIP SOPHOMORE EXPERIENCE II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Continuation of MGT 220. Focuses on growing and running the micro-business throughout the academic year with planned liquidation or shutdown by the end of the academic year. Course is coordinated through the Crotty Center for Entrepreneurial Leadership. <strong>Prerequisite(s):</strong> ACC 207; MGT 201, 220; Entrepreneurship major; overall 2.7 GPA. <strong>Corequisite(s):</strong> ACC 208.</td>
<td></td>
</tr>
<tr>
<td>MGT 301</td>
<td>ORGANIZATIONAL BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
Prerequisite(s): Junior standing.

MGT 302 MANAGERIAL SKILLS
Course focuses on knowledge, skills and abilities in oral and written communication, decision-making, and facilitation of conflict management and group/team management. Demonstrated working competencies are required to complete the course.
Prerequisite(s): Junior standing.

MGT 313 NEGOTIATION
Course integrates conceptual understanding with practical application of negotiation and examines cultural and gender differences in negotiation, influence of personality traits, the negotiation process, and different ways in which to negotiate. Demonstrated knowledge, skills and abilities are part of course requirements.
Prerequisite(s): MGT 301; junior standing.

MGT 314 SURVEY OF HUMAN RESOURCES
Survey course designed to familiarize students with the major functional areas in human resources including planning, recruitment and selection, training and development, compensation, benefits, safety, and employee relations. Course develops framework for understanding the roles of HR professional, issues faced by managers and supervisors, and application of sound management theory to these issues.
Prerequisite(s): Junior standing.

MGT 318 MANAGEMENT AND SOCIETY
Study of business firms' relationship with society through examination of influence of the competitive environment, government, interest groups, and lobbyists in the public policy process. Subjects include technological changes, racism, poverty, diversity, urban issues, and environmental concerns.
Prerequisite(s): Junior standing.

MGT 320 NEW VENTURE CREATION
Overview of the concepts and aspects involving creation of new business ventures, new product development, and innovation within existing companies now popularly called corporate venturing. Topics include entry strategies, creating high potential opportunities, entrepreneurial finance, business plan development, entrepreneurial marketing, the legal structures of new businesses, and government programs for assisting entrepreneurial firms. Fall sections open to Entrepreneurship majors only with overall 2.7 GPA.
Prerequisite(s): (ACC 200 or 208); MGT 201; junior standing.

MGT 321 FINANCING ENTREPRENEURIAL VENTURES
Focuses on financial aspects of starting, growing, and harvesting entrepreneurial ventures. Includes assessments of various sources of capital for small and growth businesses with emphasis placed on how common financing deals are structured, common financing pitfalls, and various legal documentation used to consummate financial transactions. Same as FIN 321. Fall sections open to Entrepreneurship majors only with overall 2.7 GPA.
Prerequisite(s): ACC 200 or (ACC 207, 208); junior standing.
Corequisite(s): FIN 301 or MGT 320.

MGT 401 ORGANIZATIONAL DESIGN, CULTURE, AND CHANGE
A course focused at the organizational level of analysis that includes design of organizations, development of organizational culture, and other issues of organizational change. Topics include processes for organizational design and change, power, and information processing.
Prerequisite(s): MGT 301; junior standing.

MGT 402 LEADERSHIP AND MOTIVATION
An in-depth study of individual and group/team motivation in an organizational setting through examination of individual, organizational, and societal influences on motivation. Focus is on how leaders can understand, and then affect, motivation through a variety of mechanisms.
Prerequisite(s): MGT 301; junior standing.

MGT 403 CROSS-CULTURAL MANAGEMENT
Study of general cross-cultural differences and development of cross-cultural frameworks in decision-making, negotiation, conflict management, communication, and general business relations. Primary emphasis is on understanding how and why cultures differ and how such differences can be managed.

Prerequisite(s): MGT 301; junior standing.

MGT 404 GROUP DYNAMICS, TEAM PROCESSES, AND DECISION MAKING
In-depth study of group formation, team design, and diagnosis with emphasis on developing and maintaining different types of groups and teams. Course focuses on leaders' knowledge, skills and abilities to work effectively with teams and groups.

Prerequisite(s): MGT 301; junior standing.

MGT 405 EMPLOYEE TRAINING AND DEVELOPMENT
Focuses on training and learning methods and models, career paths, and self-improvement methods within the balance of organizational, job, and individual needs. Additional emphasis on systematic development and evaluation of training programs and role of organizational leader in ensuring employee training and development.

Prerequisite(s): MGT 301; junior standing.

MGT 409 CURRENT ISSUES IN LEADERSHIP
Selected topics that consider and analyze current problems and emerging issues in leadership and in the leader's role in promoting effective organizational change and development.

Prerequisite(s): MGT 301; junior standing.

MGT 410 SENIOR SEMINAR IN EXPERIENCING LEADERSHIP
Focus on integration of knowledge, skills and abilities acquired in leadership major courses. Seminar combines classroom component with relevant and approved internship or consulting project to integrate the study of leadership with its practice.

Prerequisite(s): MGT 401, 402; Leadership major; senior standing.

MGT 414 MULTINATIONAL CORPORATE MANAGEMENT
Introduction to use of strategic management in international context with examination of different strategic and tactical approaches organizations use to manage international operations.

Prerequisite(s): Senior standing.

MGT 420 ENTREPRENEURIAL MARKETING
Study of the techniques used to profitably identify and fill customers' needs when operating with a limited budget during the early stages of a start-up or in a small to medium sized firm. Course strives to develop skills in applying basic marketing principles and high impact sales and promotion techniques in integrated manner to produce a practical, cost-effective action plan for start-ups and smaller companies. Also listed as MKT 420.

Prerequisite(s): MKT 300 or 301; junior standing.

MGT 421 SMALL BUSINESS MANAGEMENT
Course addresses unique characteristics of small businesses (e.g., resource limitations, family participation) and grapples with ways to overcome the "liability of smallness." Coverage includes effect of macro-trends (e.g., changing technology and globalization) on small business, review of topics from functionally-oriented courses, examination of how functional models such as pricing models can be modified for small business use, and ways for small business to identify and exploit weaknesses of larger, better financed competitors.

Prerequisite(s): ACC 200 or 208; MGT 201; junior standing.

MGT 422 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, 321; junior standing; permission of department chairperson.

**MGT 423**  
**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 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, 321; junior standing.

**MGT 427**  
**INTERNSHIP IN ENTREPRENEURSHIP**  
Exposes students to practicing entrepreneurs currently managing on-going entrepreneurial enterprises. Purpose of course is to develop mentor relationships with successful practicing entrepreneurs, to experience success working in entrepreneurial setting, and to gain first-hand experience about knowledge, skills, and abilities necessary to be a successful entrepreneur. Internships coordinated through the Crotty Center for Entrepreneurial Leadership. Students will submit reports throughout semester addressing questions that integrate Entrepreneurship and other business coursework with their work experience. Typically general elective credit only for ENT majors.

**Prerequisite(s):** MGT 320; Entrepreneurship major; junior standing; permission of Internship Coordinator; overall 2.7 GPA or higher.

**MGT 429**  
**CURRENT ISSUES IN ENTREPRENEURSHIP**  
In-depth examination of selected contemporary topics relevant to entrepreneurship. Subject matter may vary each semester. May be taken only once for credit toward Entrepreneurship major or minor.

**Prerequisite(s):** Junior standing.

**MGT 430**  
**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 320, 321; Entrepreneurship major; senior standing; 2.7 overall GPA or higher.

**MGT 490**  
**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; Business major; senior standing.

**MGT 491**  
**HONORS THESIS**
Selection, design, investigation, and completion of an independent and original research thesis under guidance of departmental faculty member. **Prerequisite(s):** University Honors Program participant; permission of department chairperson and director of Honors Program; senior standing.

MGT 492 HONORS THESIS
Selection, design, investigation, and completion of an independent and original research thesis under guidance of departmental faculty member. **Prerequisite(s):** University Honors Program participant; permission of department chairperson and director of Honors Program; senior standing.

MGT 494 SEMINAR IN MANAGEMENT
Study of selected topics or issues in contemporary managerial practice, domestic or international. May be taken more than once if topics change. Title will reflect topics covered in a particular offering. **Prerequisite(s):** Vary by topic; junior standing.

MGT 497 INTERNSHIP FOR GENERAL ELECTIVE CREDIT
Supervised work experience in partnership with sponsoring employer that is directly relevant to major or minor. Must work with internship coordinator and get approval of department chairperson or designee. May be used for general elective credit only. **Prerequisite(s):** Entrepreneurship or Leadership major; junior standing; overall GPA of 2.7 or higher; permission of Internship Coordinator.

MGT 498 COOPERATIVE EDUCATION
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Permission of chairperson or designee required. May be used for general elective credit only. **Prerequisite(s):** Overall GPA of 2.7 or higher.

MGT 499 INDEPENDENT STUDY
Supervised study involving directed readings, individual research (library, field, or experimental), or projects in specialized area of management. May be taken only once. May count as general elective credit. Does not apply to requirements for Leadership or Entrepreneurship major or minor. **Prerequisite(s):** MGT 301; ENT or LDR major; senior standing; sponsorship by faculty member; permission of department chairperson.

MKT 300 SURVEY OF MARKETING
Survey of marketing for non-marketing majors. Course introduces students to market and environmental analysis, marketing strategy and link with corporate strategy, market segmentation, organizational and consumer markets, and marketing mix (product, price, promotion, distribution). **Prerequisite(s):** Non-business majors only; sophomore standing.

MKT 301 PRINCIPLES OF MARKETING
The general principles and practices underlying the processes of marketing. Analysis of the environmental conditions of manufacturers, wholesalers, retailers, and other marketing agencies. **Prerequisite(s):** Business majors only; sophomore standing.

MKT 310 PRINCIPLES OF SELLING
The nature of selling, explored through the practical application of buying motives and selling techniques. Projects and role-playing to experience the preparation, closing, and post-purchase phases of selling. **Prerequisite(s):** MKT 300 or 301.

MKT 315 RETAIL MARKETING
Survey of the development of retailing and the impact of consumer behavior, fashion, computers, and other innovations. Structural organization, location, and layout. Merchandising operations including planning of sales, purchases, stock control, markup, and expense control. **Prerequisite(s):** MKT 300 or 301.

MKT 330 SERVICES MARKETING
Basic concepts of services marketing including discussion of marketing concepts and their management implications in services organizations, the scope of ethics and social responsibility at the national and global levels, and how the external environment, both domestic and international, influences organization strategy.

**Prerequisite(s):** MKT 300 or 301.

**MKT 340 MULTICULTURAL MARKETING ANALYSIS**

Study of basic concepts and theories of multicultural marketing. Students acquire basic understanding of culture, awareness of cultural differences, and appreciation of importance of cultural adaptation for marketing program, especially as related to development of marketing systems.

**Prerequisite(s):** MKT 300 or 301.

**MKT 341 BUSINESS-TO-BUSINESS MARKETING**

Concepts and analytical procedures associated with marketing to business. Business consumer and competitor analysis, marketing information systems, marketing research, and demand forecasting. Strategy development in product, promotion, distribution, and pricing with focus on manufacturers of business products.

**Prerequisite(s):** MKT 300 or 301.

**MKT 350 INTERNET AND ELECTRONIC MARKETING**

Comprehensive study of the internet as a marketing channel and as an economic and social phenomenon. Emphasis is on role of internet in firm's overall marketing efforts, especially marketing mix, target markets, and external environment; principles of e-commerce; and application of course knowledge in a managerial and decision-making context.

**Prerequisite(s):** MKT 300 or 301.

**MKT 405 CONSUMER BEHAVIOR**

Comprehensive study of buyer decision making which offers insight into the buyer-seller relationship. Application of theories from psychology and social psychology to investigate the behavior of industrial and consumer buyers.

**Prerequisite(s):** MKT 300 or 301.

**MKT 406 MARKETING CHANNELS**

Study of the place element of the marketing mix. A focus on the relationships among manufacturers, wholesalers, and retailers. Channel structure and design including franchising.

**Prerequisite(s):** MKT 300 or 301.

**MKT 411 SALES MANAGEMENT**

The structure of the sales organization; determination of sales policies; selection, training, and motivation of salespersons; establishing sales territories and quotas.

**Prerequisite(s):** (MKT 300 or 301); MKT 310.

**MKT 420 ENTREPRENEURIAL MARKETING**

Study of the techniques used to profitably identify and fill customers' needs when operating within a limited budget during the early stages of a start-up or in a small to medium sized firm. Course strives to develop skills in applying basic marketing principles and high impact sales and promotion techniques in integrated manner to produce a practical, cost-effective action plan for start-ups and smaller companies. Also listed as MGT 420.

**Prerequisite(s):** MKT 300 or 301.

**MKT 421 ADVERTISING**

Nature and scope of advertising, social and economic aspects, role of research, creative strategy, media planning and selection, coordination with other marketing efforts.

**Prerequisite(s):** MKT 300 or 301.

**MKT 428 PROMOTION MANAGEMENT**

Integration course to familiarize marketing students interested in promotion and marketing communication with tools necessary for the development, implementation, and management of promotional programs. Focus on
management and coordination of advertising, personal selling, publicity and public relations, sales promotion, and collateral materials.  

**Prerequisite(s):** MKT 300 or 301.

**MKT 435** NEW PRODUCT DEVELOPMENT  
Investigation and analysis of the new product development process, the management of a product through its life cycle, and the importance of the price variable in the product management process.  
**Prerequisite(s):** MKT 300 or 301.

**MKT 436** 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 301.

**MKT 440** GLOBAL MARKETING  
Emphasis on understanding global marketing environments, developing skills of global market analysis, designing and developing appropriate marketing strategies for global markets, decision making in global marketing.  
**Prerequisite(s):** MKT 300 or 301.

**MKT 445** SPECIAL TOPICS IN INTERNATIONAL MARKETING  
Study abroad program. Subject varies from time to time. May be taken more than once if topic changes  
**Prerequisite(s):** Junior standing.

**MKT 450** BUYER BEHAVIOR AND MARKET ANALYSIS  
Integration of theoretical components of buyer behavior and marketing research. Emphasis placed on how marketing managers use concepts from these bodies of knowledge to make better decisions. Topics include common processes and methods of contemporary market research, analysis of purchase decisions, market research techniques used to gather information about purchase decisions, and use of information to formulate and implement a marketing strategy.  
**Prerequisite(s):** MKT 301; Marketing major; junior standing.

**MKT 455** MARKETING PLANNING AND STRATEGY  
Integrative course in marketing with emphasis on managerial decision making. The course is designed around a strategic marketing planning approach with a clear emphasis on how to do strategic analysis and marketing planning.  
**Prerequisite(s):** ACC 207, 208; MKT 450; Marketing major.

**MKT 491** HONORS THESIS  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MKT 492** HONORS THESIS  
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MKT 494** SPECIAL TOPICS IN MARKETING  
Subject varies from time to time. May be taken more than once if topic changes.  
**Prerequisite(s):** Vary by topic.

**MKT 497** INTERNSHIP FOR GENERAL ELECTIVE CREDIT  
Practical work experience associated with career development and career exploration. See internship coordinator for details. Permission of department chair or designee required.  
**Prerequisite(s):** MKT major; junior standing; overall gpa of 2.7 or higher;
permission of internship coordinator.

**MKT 498  COOPERATIVE EDUCATION**  
1 - 3

Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details.) Permission of chairperson or designee required. For general elective credit only.  
**Prerequisite(s):** MKT major; overall gpa of 2.7 or higher.

**MKT 499  INDEPENDENT STUDY IN MARKETING**  
1 - 3

Study of one or more specific aspects of the marketing process with emphasis on individual reading and research. Subject matter to be determined by the instructor on the basis of interest and need of the student. Enrollment limited. Permission of chairperson or designee required.  
**Prerequisite(s):** MKT 301; MKT major; senior standing; permission of department chairperson.
School of Business Administration
Management Information Systems, Operations Management and Decision Sciences (Collapse Description)

The Department of Management Information Systems, Operations Management, and Decision Sciences offers courses in several quantitative and systems areas, a major and a minor in management information systems, a major and minor in operations management, and minors in decision sciences and e-business.

Faculty

Charles Wells, Chairperson
Professor Emeritus and Distinguished Service Professor: Bohlen
Professors Emeriti: Amsden, Casey, Hoffler, Vlahos
Sherman-Standard Register Professor of MIS: Thomas Ferratt
Niehaus Chair in Operations Management: John Kanet
Professors: Dunne, Ferratt, Kanet, Wells
Associate Professors: Enns, Gorman, Prasad, Salisbury
Assistant Professors: Harrod, Jacobs, Wynn
Lecturers: Davis, Hall, Wagner

Sub-Categories / Concentrations / Focus Areas

Decision Sciences Management Information Systems
Operations Management

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 210</td>
<td>STATISTICS FOR BUSINESS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic concepts of statistics including descriptive statistics, probability, probability distributions, and estimation.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): MTH 128, 129; BAI 103L (may be taken as a corequisite).</td>
<td></td>
</tr>
<tr>
<td>DSC 211</td>
<td>STATISTICS FOR BUSINESS II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Tests of hypotheses, analysis of variance, Chi-square tests, simple and multiple regression and correlation, and nonparametric methods. Use of computer software for statistical data analysis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): DSC 210; MTH 129.</td>
<td></td>
</tr>
<tr>
<td>DSC 313</td>
<td>ADVANCED BUSINESS STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Selected topics from advanced statistics with emphasis on business applications.</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisite(s): DSC 211 or equivalent.</td>
<td></td>
</tr>
<tr>
<td>DSC 375</td>
<td>MANAGEMENT SCIENCE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): DSC 211; OPS 301 (may be taken as a corequisite).</td>
<td></td>
</tr>
<tr>
<td>DSC 410</td>
<td>DECISION THEORY</td>
<td>3</td>
</tr>
</tbody>
</table>
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 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 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

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

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 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 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 499 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.

MIS 300 SURVEY OF MANAGEMENT INFORMATION SYSTEMS

Introduction to management information 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 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 301, (may be taken as a corequisite)); (BAI 103L or HSS 226); ECO 203.
MIS 305  INTRODUCTION TO BUSINESS APPLICATIONS: PROBLEM SOLVING WITH VISUAL TOOLS
Introduction to basic programming structures and graphical user interface design using a visual programming language such as Visual Basic.net.
**Prerequisite(s):** BAI 103L or equivalent.

MIS 325  PROGRAMMING FOR BUSINESS SYSTEMS
(Formerly MIS 225) Process of software development for business system implementation. Fundamental object-oriented programming concepts including program design, documentation, development, and testing of computer solutions of business problems using a modern programming language, such as Java.
**Prerequisite(s):** MIS 305.

MIS 360  E-COMMERCE PROCESSES AND TECHNOLOGY
Introduction to information systems technologies and techniques that enable business-to-business and business-to-consumer electronic relationships. Development of interactive websites with an introduction to client- and server-side scripting and simple database access.
**Prerequisite(s):** (MIS 300 or 301); (MIS 305 or equivalent); (BAI 103L or equivalent HTML knowledge).

MIS 365  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 301; MIS 305 (may be taken as a corequisite).

MIS 410  OBJECT-ORIENTED ANALYSIS AND DESIGN
Introduction to object-oriented concepts and techniques for analyzing and designing systems. Systems development project using an object-oriented CASE tool.
**Prerequisite(s):** MIS 301 or permission of instructor; MIS 305 recommended.

**MIS 420 EXPERT AND KNOWLEDGE-BASED SYSTEMS**
Introduction to artificial intelligence and expert and knowledge-based systems; knowledge acquisition, implementation, and validation; advanced topics; applications to business. Use of expert system software.

**Prerequisite(s):** BAI 103L or equivalent; DSC 375 recommended.

**MIS 425 INFORMATION FOR TOTAL QUALITY**
Theory and practice of total quality management (TQM); applications of TQM in the information systems function, information system requirements for TQM programs.

**Prerequisite(s):** MIS 301; OPS 301.

**MIS 430 TELECOMMUNICATIONS AND NETWORKING**
Introduction to computer-based communication networks; underlying concepts; basic hardware components and operating systems; network architectures and protocols; data integrity and security; message routing; network management.

**Prerequisite(s):** MIS 380.

**MIS 460 ADVANCED WEB DEVELOPMENT**
Study of web development concepts and techniques. Design and development of dynamic web-sites using tools such as ASP.

**Prerequisite(s):** (MIS 300 or 301); (MIS 305 or equivalent).

**MIS 461 E-BUSINESS**
Models of how to conduct business electronically. Topics include different forms of e-business, products and services provided on the Internet, how to combine electronic business with brick-and-mortar business, and keys to success for electronically enhanced businesses.

**Prerequisite(s):** MIS 301.

**MIS 465 MIS PROJECT I - ANALYSIS AND DESIGN IN TEAMS**
First of a two-course sequence. Team participation/management and project management skills. Apply these skills in teams to perform an analysis and preliminary re-design of an existing organization's information system. Emphasis on written and oral communications, including team-prepared reports and presentations. Offered fall semester only.

**Prerequisite(s):** MIS 325, 380, 381, 385.

**MIS 467 DATA WAREHOUSING**
Purpose, design, implementation, and effective use of data warehouses and data warehousing technologies. Topics include data warehouse design, data marts, data quality management, extract-transform-load process, and business intelligence.

**Prerequisite(s):** MIS 301, 385.

**MIS 468 INTERNET SECURITY**
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 also places emphasis on security for e-commerce and the Internet.

**Prerequisite(s):** MIS 301.

**MIS 475 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**
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 credit hours
Selection, design, investigation, and completion of an independent original research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

**MIS 494 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS**
1 - 4 credit hours
Study of selected technical and/or organizational issues in information systems. Topics vary from time to time. May be taken more than once if topics change. Title will reflect topics covered in a particular offering.

**MIS 497 LABORATORY WORK EXPERIENCE**
1 - 6 credit hours
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 COOPERATIVE EDUCATION**
1 - 6 credit hours
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 INDEPENDENT STUDY**
1 - 6 credit hours
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.

**OPS 220 OPERATIONS EXPERIENCES**
1 credit hour
Designed to immerse students into the contemporary issues of operations 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 INTRODUCTION TO OPERATIONS MANAGEMENT**
3 credit hours
Concepts and OM 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 OM 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, 129 or equivalent); junior standing; permission of department chairperson; DSC 211 or equivalent recommended.

**OPS 301 SURVEY OF OPERATIONS MANAGEMENT**
3 credit hours
Concepts and OM software-based techniques of designing, implementing, managing, and improving operations in manufacturing and service organizations, including project management, service systems design, resource allocation modeling, facility location, layout, aggregate planning, scheduling, and material requirements planning. Survey of major OM strategies such as: just-in-time production, total quality management, business process reengineering, synchronous manufacturing, enterprise resource planning, and supply chain management.

**Prerequisite(s):** DSC 211 (may be taken as a corequisite).
Concepts of business process management and improvement in manufacturing/service firms. Simulation analysis of business processes through mapping and improvement evaluation using software packages such as ProcessModel. Other tools of business process analysis (operations charts, time-function mapping, work-flow analysis, etc.). Behavioral/managerial issues of business process improvement (benchmarking, incremental versus radical change, and management of change).

**Prerequisite(s):** DSC 211; OPS 301 (may be taken as a corequisite).

**OPS 401 OPERATIONS PLANNING AND CONTROL**
3
Concepts and techniques of operations design, on-going management and improvement. Advanced treatment topics: including total quality management, just-in-time, operations scheduling, synchronous manufacturing, and enterprise resource planning (ERP). Software-based analysis of ERP operations. Linkages between technical and managerial/organizational issues in planning and controlling operations in manufacturing and service organizations.

**Prerequisite(s):** DSC 211; OPS 301.

**OPS 413 PROJECT MANAGEMENT**
3
A broad coverage of technical and human management issues in projects. Emphasis on project planning, scheduling, tracking, and close-down. Task time and cost estimation and description. Use of computer software. Team building and other aspects of managing project teams.

**Prerequisite(s):** OPS 301.

**OPS 430 QUALITY AND JUST IN TIME MANUFACTURING**
3
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 IMPROVEMENT**
3
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 MANAGEMENT STRATEGIES**
3
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 CAPSTONE OPS PROJECT PART 1**
1
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
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
Selection, design, investigation, and completion of an independent original, research thesis under the guidance of a departmental faculty member. Restricted to students in the University Honors Program with permission of the director of the program and the departmental chairperson.

OPS 494  SEMINAR IN OPERATIONS MANAGEMENT 3
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 PROJECT PART 2 5
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, 480, 485.

OPS 497  LABORATORY WORK EXPERIENCE 1-6
Under faculty sponsorship and in association with a participating industrial, commercial, educational, health-care, government, or other organization, practical experience in work associated with the student's major. (See internship coordinator for details.) May satisfy OPS elective, with chairperson approval.

OPS 498  COOPERATIVE EDUCATION 1-6
Optional full-time work period off campus alternating with study period on campus. (See Chapter X; consult Cooperative Education Office for details). Permission of chairperson required.

OPS 499  INDEPENDENT STUDY IN OPERATIONS MANAGEMENT 1-6
Research in conjunction with a faculty member on a subject within the general area of operations management. Normally open only to juniors and seniors who have attained a cumulative grade-point average of 3.0 or above. Permission of chairperson required.
College of Arts and Sciences

(MTH) Mathematics (Collapse Description)

The B.A. program in mathematics provides a breadth of mathematical study within the context of a liberal arts degree. It may be chosen as a preparation for a professional career in business, education, law or social science. It affords the student a significant distribution of courses in the humanities and social sciences so that he or she can develop a concentration in a field other than mathematics. The student's career goals will generally suggest desirable upper level mathematics electives. For example, prospective secondary mathematics teachers should participate in the licensure program and elect courses such as MTH 370, 395, and 466. Students with an interest in business, law, or social science should complete the probability and statistics sequence MTH 411-412.

The B.S. program in mathematics provides a foundation for students who wish to pursue graduate studies in any area of the mathematical sciences, to enter the actuarial profession, or to enter careers where mathematics is used in an engineering or science setting. A preparation for graduate programs in a mathematical science should include electives such as MTH 342, 404 and 471. A preparation for the actuarial examinations would include the probability and statistics sequence MTH 411-412; in addition, actuarial preparation should include a year of accounting, a year of economics, and a course in numerical methods CPS 353. To prepare for using mathematics in an applied context, some useful elective courses are MTH 403, 404, and the MTH 411-412 sequence.

The basic courses MTH 168, 169, 218, 219, 308, and 310 are offered every term. Most majors will take MTH 218 and MTH 308 in the same term. The required core courses, MTH 330, 361, 411, and 430, are offered at least once a year. However, most of the other upper-level electives for the major are offered only once every two years; thus careful planning for a student's upper-level electives should be done in consultation with the advisor. In addition, the symbolic logic course, PHIL 302, is a recommended general education course for all mathematics majors.

The B.S. program in applied mathematical economics provides a foundation in economics, mathematics and statistics needed for graduate study in economics or applied statistics, or for research and technical careers in business or government service. This degree is offered jointly by the Department of Mathematics and the Department of Economics and Finance in the School of Business Administration.

A minor in mathematics consists of twelve semester hours (300-400 level).

Faculty

Joe D. Mashburn, Chairperson
Distinguished Service Professor: Peterson
Professors Emeriti: Back, Friel, Gantner, Kauffman, McCluskey, Mushenheim, Rice, Schleppi, R. Steinlage, Strange
Professors: Eloe, Higgins, Islam, Mashburn
Associate Professors: Abueida, Diestelkamp, Driskell, Gorton, Hovey, Krakowski, Raffoul, Shaughnessy
Assistant Professors: Busch, Keen, Liu, Qumsiyeh, Usman, Yengulalp
Lecturers: Ober, Sainlignon, L. Steinlage

 Majors/Minors (Collapse All)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts with a major in Mathematics (MTA)</td>
<td>36</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>MTH 168, 169, 218, 308, 310, 330, 361, 411</td>
<td>27</td>
</tr>
<tr>
<td>MTH electives (300- and 400-level)</td>
<td>9</td>
</tr>
</tbody>
</table>
Liberal Studies Curriculum

Humanities and Fine Arts
- Philosophy and Religious Studies: 12
- History: 6
- Literature: English or Foreign Language: 3
- Creative and Performing Arts: 3
- Foreign Language and/or Additional Arts and/or Humanities: 3-9
- Social Sciences: 12
- Natural Sciences: 11

Communication Competencies
Introduction to the University: ASI 150: 0-1

General Education courses/academic electives to total at least: 124

Bachelor of Science with a major in Applied Mathematical Economics (MTE)

<table>
<thead>
<tr>
<th>Economics</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 203, 204, 346, 347, 441</td>
<td>15</td>
</tr>
<tr>
<td>Economics elective (300- or 400-level)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>27</td>
</tr>
<tr>
<td>MTH 168, 169, 218, 308, 310, 330, 411, 412</td>
<td>27</td>
</tr>
</tbody>
</table>

Breadth Requirement

Natural Sciences (select one grouping of courses from the following):
- BIO 151-151L, 152-152L
- CHM 123-123L, 124-124L
- GEO 115-115L, 116-116L
- PHY 206, 207, 210L, 211L
- Computer Science: 7
- CPS 150: 4
- CPS elective (300- or 400-level): 3
- Social and Behavioral Sciences: 6
- Humanities: 9
- Philosophy and Religious Studies: 12

Communication Competencies
Introduction to the University: ASI 150: 0-1

General Education courses/academic electives to total at least: 120

Bachelor of Science with a major in Mathematics (MTH)

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 168, 169, 218, 219, 308, 310, 330, 361, 430</td>
<td>30</td>
</tr>
<tr>
<td>MTH electives (300- and 400-level): 1</td>
<td>12</td>
</tr>
</tbody>
</table>

Breadth Requirement

Natural Sciences (select one grouping of courses from the following):
- BIO 151-151L, 152-152L
- CHM 123-123L, 124-124L
- GEO 115-115L, 116-116L
- PHY 206, 207, 210L, 211L
- Two additional courses acceptable for Science majors
Computer Science 3-4
CPS (132 or 150)
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

Departmental approval required.

Minor in Mathematics (MTH)

Mathematics

Select twelve semester hours (300- or 400-level) 12

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 102</td>
<td>FUNDAMENTALS OF MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sets, functions and graphs, exponents, polynomials and algebraic equations, systems of equations.</td>
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</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> One year of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 114</td>
<td>CONTEMPORARY MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A study of contemporary mathematical topics and their applications. Topics may include management science, statistics, social choice, size and shape, and computer mathematics.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Two years of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 116</td>
<td>PRECALCULUS MATHEMATICS</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>A review of topics from algebra and trigonometry including polynomials, functions and graphs, exponential and logarithmic functions, trigonometric functions and identities.</td>
<td></td>
</tr>
<tr>
<td>MTH 128</td>
<td>FINITE MATHEMATICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from mathematics used in business including systems of equations, inequalities, matrix algebra, linear programming and logarithms; applications to compound interest, annuities and other finance problems.</td>
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<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 102 or sufficient college preparatory mathematics.</td>
<td></td>
</tr>
<tr>
<td>MTH 129</td>
<td>CALCULUS FOR BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from differential and integral calculus used in business; applications to optimizing financial functions, marginal functions in economics, and consumer or producer surplus.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 128 or sufficient college preparatory mathematics.</td>
<td></td>
</tr>
<tr>
<td>MTH 137</td>
<td>CALCULUS I WITH REVIEW</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> Two years of high school algebra.</td>
<td></td>
</tr>
<tr>
<td>MTH 138</td>
<td>CALCULUS I WITH REVIEW</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to the differential and integral calculus with an extensive review of algebra and trigonometry; differentiation and integration of algebraic and transcendental functions with applications.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> MTH 137.</td>
<td></td>
</tr>
<tr>
<td>MTH 148</td>
<td>INTRODUCTORY CALCULUS I</td>
<td>3</td>
</tr>
</tbody>
</table>
Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to the life and social sciences.

**Prerequisite(s):** MTH 116 or equivalent.

MTH 149 INTRODUCTORY CALCULUS II
Continuation of MTH 148. 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 148.

MTH 168 ANALYTIC GEOMETRY AND CALCULUS I
Introduction to the differential and integral calculus; differentiation and integration of algebraic and transcendental functions with applications to science and engineering.

**Prerequisite(s):** MTH 116 or equivalent.

MTH 169 ANALYTIC GEOMETRY AND CALCULUS II
Continuation of MTH 168. Conic sections, techniques of integration with applications to science and engineering, infinite series, indeterminate forms, Taylor's theorem.

**Prerequisite(s):** MTH 138 or 168.

MTH 204 MATHEMATICAL CONCEPTS I
First course of a two-semester sequence designed for pre-service teachers. Concepts necessary for an understanding of the structure of arithmetic and its algorithms, number patterns, sets, problem solving, percent, relation and proportion, use of calculators.

**Prerequisite(s):** One year of high school algebra; one year of high school geometry.

MTH 205 MATHEMATICAL CONCEPTS II
Continuation of MTH 204. Topics include probability, representing and interpreting data, the metric system, elementary geometry, geometric patterns, coordinate geometry, algebra and geometry, transformations, computer literacy.

**Prerequisite(s):** MTH 204.

MTH 206 ALGEBRA AND CALCULUS CONCEPTS
Development of the algebra of polynomials and functions; factoring and roots; mathematical induction and the binomial theorem; arithmetic and geometric sums; introduction to limiting processes; slopes and area estimations and computations.

**Prerequisite(s):** MTH 205.

MTH 207 INTRODUCTION TO STATISTICS
Introduction to the concepts of statistical thinking for students whose majors do not require calculus. Methods of presenting data, including graphical methods. Using data to make decisions and draw conclusions. Basic ideas of drawing a sample and interpreting the information that it contains.

**Prerequisite(s):** Two years of high school algebra.

MTH 214 MATHEMATICAL CONCEPTS FOR MIDDLE SCHOOL TEACHERS
Concepts necessary for an understanding of the arithmetic taught in both elementary and middle grades. Includes a study of the structure of arithmetic and its algorithms; problem solving; reasoning and proof; proportional reasoning; use of computers and calculators to solve problems.

MTH 215 ALGEBRA, FUNCTIONS AND GRAPHS
Development of the algebra of various families of functions including polynomial, exponential, logarithmic, and trigonometric functions; factoring and roots; interpretation of graphs; use of calculators and data collection devices to solve problems.

**Prerequisite(s):** MTH 214.

MTH 216 CALCULUS CONCEPTS AND APPLICATIONS
Develop conceptual understanding of basic calculus concepts; introduction to the notion of limit; rates of change; slopes and area computations; use of calculators and data collection devices to make predictions, estimations, and solve problems.

**Prerequisite(s):** MTH 215 or permission of instructor.

**MTH 218 ANALYTIC GEOMETRY AND CALCULUS III**
Continuation of MTH 169. Solid analytic geometry, vectors and vector functions, multivariable calculus, partial derivatives, multiple integrals.

**Prerequisite(s):** MTH 169.

**MTH 219 APPLIED DIFFERENTIAL EQUATIONS**
First order equations, linear equations with constant coefficients, systems of equations, the Laplace transform, numerical methods, applications.

**Prerequisite(s):** MTH 218.

**MTH 250 ADVANCED TECHNICAL MATHEMATICS**
Appropriate analytical techniques for students of engineering technology; topics include integration by parts, multivariable calculus, complex numbers, matrices and system of linear equations, and first and second order differential equations. Applications are appropriate for the engineering technology programs (circuits, vibrations, and heat transfer).

**Prerequisite(s):** MTH 138 or 168.

**MTH 266 DISCRETE AND FINITE MATHEMATICS FOR MIDDLE SCHOOL TEACHERS**
Introduction to topics in finite and discrete mathematics; linear programming; applications in finance; graph theory; mathematics of social choice; logic; use of computers and calculators to model and solve problems.

**Prerequisite(s):** MTH 214 or permission of instructor.

**MTH 270 GEOMETRY CONCEPTS AND APPLICATIONS**
Introduction to the geometry of two- and three-dimensional space; patterns in geometry; measurement systems; transformations and similarity; coordinate geometry; the algebra of geometry; trigonometry; use of dynamic computer software to explore geometric concepts.

**Prerequisite(s):** MTH 214.

**MTH 290 TOPICS IN (NAMED AREA) 1-3**
Exploration of varying topics appropriate for the needs of the pre-service training of teachers of mathematics. May be repeated as topics change.

**Prerequisite(s):** One mathematics course beyond MTH 102; permission of department chairperson and/or instructor.

**MTH 295 HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS**
Fundamental historical development of modern arithmetic, algebra, geometry, and number systems from early Egyptian, Babylonian, and Greek sources. Students may not receive credit for both this course and MTH 395.

**Prerequisite(s):** MTH 214 or permission of instructor.

**MTH 308 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 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, 308) or (MTH 218; permission of instructor). (May be taken as corequisites).

**MTH 330 INTERMEDIATE ANALYSIS**
Theoretical development of the calculus of a real-valued function of a real variable. Topics include the algebraic and topological properties of the real line, limits of sequences and functions, continuity, differentiability, and integration.
Prerequisite(s): MTH 310.

MTH 342 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, 308.

MTH 343 MATHEMATICS FOR ELECTRICAL AND COMPUTER ENGINEERS
Linear algebra and matrices, complex variables, mathematical transforms and their inter-relations. Focus on mathematical theories as well as applications and an extensive use of MATLAB.

Prerequisite(s): MTH 219.

MTH 361 INTRODUCTION TO ABSTRACT ALGEBRA
Fundamental concepts of groups, rings, integral domains and fields.

Prerequisite(s): MTH 218, 308.

MTH 367 STATISTICAL METHODS I
Probability distributions including binomial, hypergeometric, Poisson, and normal. Estimation of population mean and standard deviation: Confidence intervals and tests of hypotheses using t-, Chi-square, and F-statistics. Mathematics majors enroll in MTH 411 instead of 367.

Prerequisite(s): MTH 149 or 169.

MTH 368 STATISTICAL METHODS II

Prerequisite(s): MTH 367.

MTH 370 INTRODUCTION TO HIGHER GEOMETRY
Projective, affine, and hyperbolic geometries using synthetic and/or analytic techniques.

Prerequisite(s): MTH 218, 308.

MTH 376 NUMBER THEORY
Topics include Diophantine equations, Chinese Remainder theorem, Mobius inversion formula, quadratic residues and the Law of Quadratic Reciprocity, Gaussian integers, and integral quaternions.

Prerequisite(s): MTH 218, 308.

MTH 395 DEVELOPMENT OF MATHEMATICAL IDEAS
The evolution of mathematical ideas and techniques from ancient times to the present with emphasis on the Greek era. Famous people and famous problems. Chronological outline of mathematics in each of its branches along with applications.

Prerequisite(s): MTH 218, 308.

MTH 403 BOUNDARY VALUE PROBLEMS

Prerequisite(s): MTH 219.

MTH 404 COMPLEX VARIABLES
Functions of a complex variable, conformal mapping, integration in the complex plane. Laurent series and residue theory.

Prerequisite(s): MTH 219.

MTH 411 PROBABILITY AND STATISTICS I
Mathematical probability, random variables, Bayes' Theorem, Chebyshev's Inequality, Binomial, Poisson, and Normal probability laws, moment generating functions, limit theorems, descriptive statistics, large sample statistical inference.
PREREQUISITE(S): MTH 218, 308.

MTH 411 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 412 PROBABILITY AND STATISTICS III
Statistical decision theory, partitioning of sums of squares, analysis of variance, regression on several independent variables, multiple regression approach to analysis of variance, design of experiments.
PREREQUISITE(S): MTH 412.

MTH 413 PROBABILITY AND STATISTICS III
Statistical decision theory, partitioning of sums of squares, analysis of variance, regression on several independent variables, multiple regression approach to analysis of variance, design of experiments.
PREREQUISITE(S): MTH 412.

MTH 430 REAL ANALYSIS
Continuation of MTH 330. Topics include the theory of convergence of sequences and series of functions in the context of metric spaces, uniform continuity, uniform convergence, and integration.
PREREQUISITE(S): MTH 330.

MTH 435 ADVANCED MULTIVARIATE CALCULUS
Topics include directional derivatives, chain rule, Lagrange multipliers, Taylor's formula, the mean value theorem, inverse mapping theorem, implicit function theorem, integration, Fubini's theorem, change of variables, line integrals, Green's theorem and Stoke's theorem.
PREREQUISITE(S): MTH 310.

MTH 440 INTRODUCTION TO MATHEMATICAL MODELING
Introduction to the use of mathematical techniques and results in constructing and modifying models designed to solve problems encountered in everyday life. Computer simulation and limitations thereof, dimensional analysis, scaling, and approximations at various levels.
PREREQUISITE(S): MTH 219, 310; permission of instructor.

MTH 441 MATHEMATICS CLINIC
Student teams will be responsible for the development and/or modification and testing of a mathematical model designed for a particular purpose. Faculty guidance.
PREREQUISITE(S): MTH 440; permission of department chairperson.

MTH 445 SPECIAL TOPICS IN (NAMED AREA) 1-3
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 MATHEMATICAL MODELS IN FINANCE
Introduction to 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 or permission of instructor.

MTH 460 INTRODUCTION TO OPERATIONS RESEARCH
Topics include linear programming and its applications, game theory, Markov chains or linear codes and their error-correcting capabilities.
PREREQUISITE(S): MTH 310.

MTH 465 LINEAR ALGEBRA
Vector spaces, linear transformations and matrices, determinants, inner product spaces, invariant direct-sum decomposition and the Jordan canonical form.
PREREQUISITE(S): MTH 310.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 466</td>
<td>GRAPH THEORY AND COMBINATORICS</td>
<td>Graphs as algebraic structures; eulerian, hamiltonian, complete, connected and planar graphs. Applications include scheduling and routing problems. Discussion of algorithms for optimal or near-optimal solutions. Combinatorial topics could include generating functions, recurrence relations, Polya's theorem and Ramsey Theory.</td>
<td>MTH 310.</td>
</tr>
<tr>
<td>MTH 467</td>
<td>COMBINATORIAL DESIGN THEORY</td>
<td>Latin squares, mutually orthogonal Latin squares, orthogonal and perpendicular arrays, Steiner triple systems, block designs, difference sets, and finite geometries.</td>
<td>MTH 308 or permission of instructor.</td>
</tr>
<tr>
<td>MTH 471</td>
<td>TOPOLOGY</td>
<td>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.</td>
<td>MTH 310 or permission of instructor.</td>
</tr>
<tr>
<td>MTH 477</td>
<td>HONORS THESIS PROJECT</td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
<td>Approval of University Honors Program.</td>
</tr>
<tr>
<td>MTH 478</td>
<td>HONORS THESIS PROJECT</td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
<td>Approved 477; approval of University Honors Program.</td>
</tr>
<tr>
<td>MTH 490</td>
<td>READINGS IN (NAMED AREA)</td>
<td>Individual study in specialized areas carried out under the supervision of a staff member. May be taken more than once.</td>
<td>Permission of department chairperson.</td>
</tr>
</tbody>
</table>
School of Engineering
(MEE) Mechanical and Aerospace Engineering

Mechanical engineers apply principles of the physical sciences, mathematics, economics, and human relations to conceive, design, and analyze a wide variety of products and systems. They may also direct manufacturing, distribution, and operation. Increasingly, mechanical engineers are called to design and manufacture products with reduced energy, waste, and pollution. Mechanical engineers can be employed in governmental organizations and a variety of industries including automotive, aerospace, biomedical, textiles, raw materials production, and energy. Job functions range from research, development, design, analysis, production, sales, consulting, and management. Many find that a mechanical engineering education is an excellent preparation for careers in law and medicine among other professions.

The curriculum in mechanical engineering serves as a broad-based education for positions in these diverse fields or for graduate study leading to advanced degrees. The first part of the mechanical engineering curriculum provides a firm foundation in mathematics, physics, chemistry, computer-aided drawing and conceptual design, and the humanities. The second part of the curriculum provides the engineering science fundamentals and laboratory experiences necessary for testing, design, as well as continued learning in the humanities, arts, and social sciences. The final part of the curriculum emphasizes synthesis of knowledge through major design projects sponsored by regional industries. The curriculum includes sufficient elective courses to permit a concentration in aerospace or energy systems as well as minors in several other areas, including digital systems and controls and engineering management. As well, open electives can be used to take courses in any field including language, business, and the sciences.

The overall educational experience, guided by the University of Dayton Catholic and Marianist heritage, seeks to have graduates who within several years after graduation are expected to:

1. be successfully engaging in professional work experiences which may include responsibilities in design, testing, manufacturing, and/or research and development;
2. demonstrate professional and personal growth through continuing education or through programmed training within their organizations, and most importantly, on their own;
3. serve as effective team members in their professional communities, provide solid leadership in their teams for their assigned tasks, and take initiative;
4. demonstrate commitment to a career and life where ethics, integrity, and service are paramount;
5. increasingly serve as mentors to their peers.

Specifically, this means that graduates will: have the ability to apply knowledge of mathematics, science, and engineering fundamentals; will have the ability to use techniques, skills and modern engineering tools necessary for engineering practice; will have the ability to design and conduct experiments, and analyze and interpret data; will have the ability to design components, systems and/or processes; will be able to independently identify, formulate and solve engineering problems; will have the ability to function effectively on engineering teams; will be able to communicate their ideas/solutions effectively to both technical and non-technical people; will have the broad education necessary to understand the social, environmental and economic impact of engineering solutions in a global context; will exhibit a commitment to ethical behavior, leadership and service within their profession; will have knowledge of and be able to think critically about contemporary issues; and will continue their personal and professional development by engaging in lifelong learning.

Faculty
Kevin P. Hallinan, Chairperson
Professors Emeriti: Chuang, Eastep, Eimermacher, Minardi, Wurst
Professors: Balla!, Brockman, Doepker, Doyle, Enin, Hallinan, Jain, Kashani, Kissock, Schauer, Sidhu, Zabarnick
Associate Professors: Altman, Endres, Joo, Murray, Petrykowski, Pinnell
Assistant Professors: Bigelow, Chuck, Chiasson
Adjunct Associate Professors: Burnley, Camberos, Doty, Fry
Adjunct Assistant Professors: Koloney, Price, Weber

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Mechanical Engineering (MEE)

First-Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CHM 123</td>
<td>GENERAL CHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>CHM 123L</td>
<td>GENERAL CHEMISTRY LABORATORY</td>
<td>1</td>
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<tr>
<td>EGR 100</td>
<td>ENRICHMENT WORKSHOP</td>
<td>0-3</td>
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<tr>
<td>EGR 103</td>
<td>ENGINEERING INNOVATION</td>
<td>2</td>
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<tr>
<td>ENG 101-102 or 114 or 198</td>
<td>COLLEGE COMPOSITION I (ENG 101)</td>
<td>3-6</td>
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<tr>
<td></td>
<td>COLLEGE COMPOSITION II (ENG 102)</td>
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<td></td>
<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
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<td>ENGLISH SCHOLARS' SEMINAR (ENG 198)</td>
<td></td>
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<tr>
<td>HST 103 or 198</td>
<td>THE WEST AND THE WORLD (HST 103)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HISTORY SCHOLARS' SEMINAR (HST 198)</td>
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<tr>
<td>MEE 101</td>
<td>INTRODUCTION TO MECHANICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td>MEE 104L</td>
<td>COMPUTER GRAPHICS I</td>
<td>1</td>
</tr>
<tr>
<td>MTH 168</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 169</td>
<td>ANALYTIC GEOMETRY AND CALCULUS II</td>
<td>4</td>
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<tr>
<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
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<tr>
<td>PHY 206</td>
<td>GENERAL PHYSICS I - MECHANICS</td>
<td>3</td>
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<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
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</table>

Sophomore-Year

First-Term

<table>
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<tr>
<th>Course</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>EGR 201</td>
<td>ENGINEERING MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>EGR 202</td>
<td>ENGINEERING THERMODYNAMICS</td>
<td>3</td>
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<tr>
<td>MEE 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
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<tr>
<td>MEE 227L</td>
<td>COMPUTER GRAPHICS II</td>
<td>1</td>
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<tr>
<td>MTH 218</td>
<td>ANALYTIC GEOMETRY AND CALCULUS III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 207</td>
<td>GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>3</td>
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Second-Term

<table>
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<th>Course</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CMM 110</td>
<td>GROUP DECISION MAKING</td>
<td>1</td>
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<tr>
<td>ECE 201L</td>
<td>CIRCUIT ANALYSIS LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>EGM 202</td>
<td>DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>EGM 303</td>
<td>MECHANICS II</td>
<td>3</td>
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<tr>
<td>EGR 203</td>
<td>ELECTRICAL AND ELECTRONIC CIRCUITS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
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<tr>
<td>MTH 219</td>
<td>APPLIED DIFFERENTIAL EQUATIONS</td>
<td>3</td>
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<tr>
<td></td>
<td>General Education elective</td>
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Junior-Year

First-Term

<table>
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<tr>
<th>Course</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CMM 111 or 112</td>
<td>INFORMATIVE PUBLIC SPEAKING (CMM 111) PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
<td>1</td>
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<tr>
<td>MEE 308</td>
<td>FLUID MECHANICS</td>
<td>3</td>
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<tr>
<td>MEE 312-312L</td>
<td>ENGINEERING MATERIALS I (MEE 312) MATERIALS LABORATORY (MEE 312L)</td>
<td>4</td>
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<tr>
<td>MEE 314</td>
<td>COMPUTATIONAL METHODS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 321</td>
<td>THEORY OF MACHINES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 415</td>
<td>PROFESSIONAL DEVELOPMENT I</td>
<td>0</td>
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</tbody>
</table>

Sem. Hrs.: 31-37

17
Science elective 3

Second-Term 17

- CMM 113 INTERVIEWING 1
- MEE 341 ENGINEERING EXPERIMENTATION 3
- MEE 344 MANUFACTURING PROCESSES 3
- MEE 410-410L HEAT TRANSFER (MEE 410) THERMO-FLUIDS LABORATORY (MEE 410L) 4
- MEE 415 PROFESSIONAL DEVELOPMENT I 0
- General Education elective 3
- Open elective 3

Senior-Year 3

First-Term 15-16

- MEE 415 PROFESSIONAL DEVELOPMENT I 0
- MEE 425 or 427 AEROSPACE DESIGN (MEE 425) MECHANICAL DESIGN I (MEE 427) 3
- MEE 431L MULTIDISCIPLINARY ENGINEERING DESIGN LABORATORY I 1
- MEE 433 PROJECT MANAGEMENT AND INNOVATION 1
- MEE 439 or 440 DYNAMIC SYSTEMS AND CONTROLS (MEE 439) FLIGHT VEHICLE PERFORMANCE (MEE 440) 4
- Ethics elective (PHL 316 or REL 369) 3
- MEE elective 3

Second-Term 16

- MEE 416 PROFESSIONAL DEVELOPMENT II 1
- MEE 432L MULTIDISCIPLINARY ENGINEERING DESIGN LAB II 3
- MEE 460 ENGINEERING ANALYSIS 3
- General Education electives 3
- MEE electives 3
- Open elective 3

1Aerospace Concentration students take MEE 225 in place of an open elective, MEE 401 and MEE 413 in place of MEE electives.

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.

**Aerospace Engineering**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MEE 225</td>
<td>INTRODUCTION TO FLIGHT</td>
<td>3</td>
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<tr>
<td>MEE 401</td>
<td>AERODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 409</td>
<td>AEROSPACE STRUCTURES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 413</td>
<td>PROPULSION</td>
<td>3</td>
</tr>
<tr>
<td>MEE 418</td>
<td>GAS DYNAMICS</td>
<td>3</td>
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<tr>
<td>MEE 425</td>
<td>AEROSPACE DESIGN</td>
<td>3</td>
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<tr>
<td>MEE 431L</td>
<td>MULTIDISCIPLINARY ENGINEERING DESIGN LAB I</td>
<td>1</td>
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<tr>
<td>MEE 432L</td>
<td>MULTIDISCIPLINARY ENGINEERING DESIGN LAB II</td>
<td>3</td>
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<tr>
<td>MEE 499</td>
<td>SPECIAL PROBLEMS IN MECH AND AERO ENGR 1</td>
<td>1-6</td>
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<tr>
<td>MEE 504</td>
<td>FUNDAMENTALS OF FLUID MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>Any approved graduate AEE course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
1 Must be related to Aerospace Engineering.

Concentration in Energy Systems - Mechanical (MES)

This concentration is open to all engineering students.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 320</td>
<td>CITIES AND ENERGY</td>
<td>3</td>
</tr>
<tr>
<td>EGR 202</td>
<td>ENGINEERING THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 308</td>
<td>FLUID MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 410</td>
<td>HEAT TRANSFER</td>
<td>3</td>
</tr>
<tr>
<td>MEE 431L</td>
<td>MULTIDISCIPLINARY ENGINEERING DESIGN LAB</td>
<td>1</td>
</tr>
<tr>
<td>MEE 432L</td>
<td>MULTIDISCIPLINARY ENGINEERING DESIGN LAB</td>
<td>3</td>
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<td>Select one course from:</td>
<td>3</td>
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<tr>
<td>ASI 343</td>
<td>SPECIAL TOPICS IN PHILOSOPHY STUDY</td>
<td>1-3</td>
</tr>
<tr>
<td>PHL 316</td>
<td>ENGINEERING ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>PHL 321</td>
<td>ENVIRONMENTAL ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>REL 369</td>
<td>CHRISTIAN ETHICS AND ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>CEE 390</td>
<td>ENVIRONMENTAL POLLUTION CONTROL</td>
<td>3</td>
</tr>
<tr>
<td>CEE 434</td>
<td>WATER AND WASTEWATER ENGINEERING</td>
<td>3</td>
</tr>
<tr>
<td>ECO 310</td>
<td>ECONOMICS OF THE ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>POL 371</td>
<td>ENVIRONMENTAL POLICY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three courses from:</td>
<td>9</td>
</tr>
<tr>
<td>AEE or MEE 560</td>
<td>PROPULSION SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>AEE or MEE 565</td>
<td>FUNDAMENTALS OF FUELS &amp; COMBUSTION</td>
<td>3</td>
</tr>
<tr>
<td>AEE or MEE 566</td>
<td>COMBUSTION THEORY</td>
<td>3</td>
</tr>
<tr>
<td>EGR 320</td>
<td>SYSTEMS DESIGN SCHOLARS SEMINAR</td>
<td>3</td>
</tr>
<tr>
<td>EGR or MEE 498</td>
<td>RESEARCH AND INNOVATION LAB</td>
<td>1-6</td>
</tr>
<tr>
<td>MEE 413 or 513</td>
<td>PROPULSION</td>
<td>3</td>
</tr>
<tr>
<td>MEE 420 or 569</td>
<td>ENERGY EFFICIENT BUILDINGS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 471 or 571</td>
<td>DESIGN OF THERMAL SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 472 or 572</td>
<td>DESIGN FOR ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>MEE 473 or 573</td>
<td>RENEWABLE ENERGY SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 478 or 578</td>
<td>ENERGY EFFICIENT MANUFACTURING</td>
<td>3</td>
</tr>
<tr>
<td>MEE 511</td>
<td>ADVANCED THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any approved AEE or MEE elective</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Or approved history or social science elective.
2 Focus on energy related project.
3 Must be related to Energy Systems.

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.

Elective

1 Or any approved graduate AEE course.
Minor in Design and Manufacturing Engineering (DME)

This minor is open to all engineering majors. The program provides the concepts of mechanical design, manufacturing processes, statistical quality control, robotics, and flexible, integrated, and automated manufacturing systems.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 312-312L ENGINEERING MATERIALS I (MEE 312)</td>
<td>4</td>
</tr>
<tr>
<td>MATERIALS LABORATORY (MEE 312L)</td>
<td></td>
</tr>
<tr>
<td>MEE 427 MECHANICAL DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>MEE 431L MULTIDISCIPLINARY ENGINEERING DESIGN LABORATORY I</td>
<td>1</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>ISE 421 INTRODUCTION TO OPERATIONS</td>
<td>3</td>
</tr>
<tr>
<td>ISE 460 QUALITY ASSURANCE</td>
<td>3</td>
</tr>
<tr>
<td>MEE 428 MECHANICAL DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>MEE 434 MECHATRONICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 438 ROBOTICS AND FLEXIBLE MANUFACTURING</td>
<td>3</td>
</tr>
<tr>
<td>MEE 4991 SPECIAL PROBLEMS IN MECHANICAL AND AEROSPACE ENGINEERING</td>
<td>1 - 6</td>
</tr>
<tr>
<td>MEE 545 COMPUTATIONAL METHODS FOR DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>MEE 580 STAT PROC CONTROL BY FEEDBACK</td>
<td>3</td>
</tr>
<tr>
<td>MEE 585 DESIGN FOR PRODUCIBILITY</td>
<td>3</td>
</tr>
</tbody>
</table>

1Must be related to Design or Manufacturing.

Minor in Dynamic Analysis of Mechanical Systems (DAS)

This minor is open to civil and mechanical engineering majors. The program provides study in the general area of dynamics, and is designed to give the student a broad understanding of mechanical systems and their use in machinery, vehicles, structures, etc. MEE students must select at least two courses that are not part of their required program.

<table>
<thead>
<tr>
<th>Dynamic Analysis of Mechanical Systems</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select four courses from:</td>
<td>12</td>
</tr>
<tr>
<td>MEE 321 THEORY OF MACHINES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 428 MECHANICAL DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>MEE 436 VEHICLE PERFORMANCE ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 4991 SPECIAL PROBLEMS IN MECHANICAL AND AEROSPACE ENGINEERING</td>
<td>1 - 6</td>
</tr>
<tr>
<td>EGM 519 ANALYTIC DYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 527 AUTOMATIC CONTROL THEORY</td>
<td>3</td>
</tr>
<tr>
<td>MEE 535 ADVANCED MECHANICAL VIBRATIONS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 536 RANDOM VIBRATIONS</td>
<td>3</td>
</tr>
</tbody>
</table>

1Must be related to Dynamic Analysis or Controls.

Minor in Mechanics of Engineering Systems (MES)

This minor is open to chemical, civil, computer, and electrical engineering majors. The program provides for additional study in basic mechanics with emphasis in dynamics. This knowledge can be applied to design of machines, vehicles, and structures.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
Select four courses from:\n\n| Code | Title | Sem. Hrs. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 303</td>
<td>MECHANICS II</td>
<td>3</td>
</tr>
<tr>
<td>MEE 321</td>
<td>THEORY OF MACHINES</td>
<td>3</td>
</tr>
<tr>
<td>MEE 427</td>
<td>MECHANICAL DESIGN I</td>
<td>3</td>
</tr>
<tr>
<td>MEE 428</td>
<td>MECHANICAL DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>MEE 436</td>
<td>VEHICLE PERFORMANCE ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 499</td>
<td>SPECIAL PROBLEMS IN MECHANICAL AND AEROSPACE ENGINEERING</td>
<td>1 - 6</td>
</tr>
<tr>
<td>MEE 503</td>
<td>INTRODUCTION TO CONTINUUM MECHANICS</td>
<td>3</td>
</tr>
<tr>
<td>MEE 527</td>
<td>AUTOMATIC CONTROL THEORY</td>
<td>3</td>
</tr>
<tr>
<td>MEE 546</td>
<td>FINITE ELEMENT ANALYSIS I</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Courses selected may not be those already required for student's major.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 101</td>
<td>INTRODUCTION TO MECHANICAL ENGINEERING</td>
<td>1</td>
</tr>
<tr>
<td>Weekly meeting of first-semester, first-year mechanical engineering students. Orientation to engineering problem solving and team building through hands on applications.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 104L</td>
<td>COMPUTER GRAPHICS I</td>
<td>1</td>
</tr>
<tr>
<td>Fundamentals of engineering graphics and the part that graphical communication plays in engineering. Introduction to computer aided design (CAD).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 198</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 200</td>
<td>PROFESSIONAL DEVELOPMENT SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 225</td>
<td>INTRODUCTION TO FLIGHT</td>
<td>3</td>
</tr>
<tr>
<td>An introductory course designed to provide students with a basic understanding of the multitude of disciplines that comprise the aeronautical engineering profession. A background and brief history of flight are covered. Foundational knowledge of aerodynamics, propulsion, aerostructures, aircraft performance and aerospace vehicle design. Laboratory included.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s): PHY 206.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 227L</td>
<td>COMPUTER GRAPHICS II</td>
<td>1</td>
</tr>
<tr>
<td>Advanced engineering graphics and graphical communication in engineering; introduction to project design.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s): MEE 104L.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEE 298</td>
<td>RESEARCH AND INNOVATION LABORATORY</td>
<td>1 - 6</td>
</tr>
<tr>
<td>Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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teams of students will be considered.

MEE 308 FLUID MECHANICS
An introductory course in fluid mechanics. Fundamental concepts including continuity, momentum, and energy relations. Control volume analysis and differential formulations. Internal and external flows in laminar and turbulent regimes. One-dimensional compressible flows. **Prerequisite(s):** EGR 202. **Corequisite(s):** MTH 219.

MEE 312 ENGINEERING MATERIALS I
Atomic structure, bonding, and arrangement in solids. Mechanical and physical properties of solids, phase equilibria, and processing of solids. Strengthening methods in solids, principles of material selection, and characteristics of non-ferrous alloys, polymers, ceramic composites, and construction materials. **Corequisite(s):** EGM 303; MEE 312L.

MEE 312L MATERIALS LABORATORY
Conducting mechanical and physical tests on solids including, but not limited to tension, compression, bending, hardness, and impact. Metallurgical examination of surfaces. Test standards, data reduction, analysis, interpretation, and written and oral communication of test results. **Corequisite(s):** EGM 303; MEE 312.

MEE 314 COMPUTATIONAL METHODS
Detailed introduction to solving engineering problems through programming in the Matlab technical computing software package. Fundamentals of algorithms, including iterative processes, arrays and logic operations. Graphing of 2D and 3D functions. Graphical user interfaces. Focus on engineering applications that utilize the mathematical techniques of linear algebra, statistics and numerical methods. **Corequisite(s):** MTH 219.

MEE 321 THEORY OF MACHINES
Applications and design of mechanisms; use of graphical and analytical techniques for the kinematic and dynamic analysis and synthesis of machines. Analysis and design of cams, gears and gear trains. Balancing of rotating masses. **Corequisite(s):** EGM 202.

MEE 341 ENGINEERING EXPERIMENTATION
Basic sensors and instrumentation, design of experiments, data acquisition and processing, and uncertainty and statistical analysis of data. Measurement of strain, motion, pressure, temperature, flow and sound. Measurement applications to engineering phenomena or systems. Course will utilize a mix of lecture, laboratory experiments, and demonstrations. Also a term project to provide design of experiment experience. **Corequisite(s):** EGM 303; MEE 308.

MEE 344 MANUFACTURING PROCESSES
Casting processes including casting defects and design of castings; metal working processes such as extrusion, forging, rolling and wire drawing; sheet metal forming; welding processes; powder metallurgy and design principles for P/M parts, metal removal processes; forming and shaping plastics and composite materials; rapid prototyping. Design principles for manufacturability. Includes laboratory. **Prerequisite(s):** MEE 312.

MEE 398 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 401</td>
<td>AERODYNAMICS</td>
<td>3</td>
<td>Fundamentals of steady, incompressible, and inviscid aerodynamic flows over wings. Emphasis on force and moment determination for air foil and finite wings. <strong>Prerequisite(s):</strong> MEE 308.</td>
</tr>
<tr>
<td>MEE 409</td>
<td>AEROSPACE STRUCTURES</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> EGM 303.</td>
</tr>
<tr>
<td>MEE 410</td>
<td>HEAT TRANSFER</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> MEE 308.</td>
</tr>
<tr>
<td>MEE 410L</td>
<td>THERMO-FLUIDS LABORATORY</td>
<td>1</td>
<td>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. <strong>Corequisite(s):</strong> MEE 410.</td>
</tr>
<tr>
<td>MEE 413</td>
<td>PROPULSION</td>
<td>3</td>
<td>Principles of propulsive devices, aero thermodynamics, diffuser and nozzle flow, energy transfer in turbo-machinery; turbojet, turbo-fan, prop-fan engines; turbo-prop and turboshift engines. RAM and SCRAMP jet analysis and a brief introduction to related materials and air frame-propulsion interaction. <strong>Prerequisite(s):</strong> MEE 308.</td>
</tr>
<tr>
<td>MEE 415</td>
<td>PROFESSIONAL DEVELOPMENT I</td>
<td>0</td>
<td>Presentations on contemporary mechanical engineering subjects by students, faculty, and engineers in active practice; student involvement in professional and service activities. Registration required of all junior and senior students not registered in MEE 416.</td>
</tr>
<tr>
<td>MEE 416</td>
<td>PROFESSIONAL DEVELOPMENT II</td>
<td>1</td>
<td>Presentations on contemporary mechanical engineering subjects by students, faculty, and engineers in active practice; student involvement in professional and service activities. Registration required of all students in their last term prior to graduation.</td>
</tr>
<tr>
<td>MEE 417</td>
<td>INTERNAL COMBUSTION ENGINES</td>
<td>3</td>
<td>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. <strong>Prerequisite(s):</strong> EGR 202 or permission of instructor.</td>
</tr>
<tr>
<td>MEE 418</td>
<td>GAS DYNAMICS</td>
<td>3</td>
<td>Application of the basic thermodynamic and fluid motion laws to the solution of engineering problems in fluid mechanics. Use of differential and integral equations for internal and external flow of compressible fluids with friction and heat transfer. Isothermal flow; adiabatic flow; normal and oblique shocks; Prandtl-Meyer flow; Fanno and Rayleigh line flow. <strong>Prerequisite(s):</strong> MEE 308.</td>
</tr>
<tr>
<td>MEE 420</td>
<td>ENERGY EFFICIENT BUILDINGS</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
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
Design project in which teams of students synthesize an engineering solution to a complex aerospace related problem through the integration of mechanical and aerospace engineering principles.

**Prerequisite(s):** (MEE 225, 401, 409) or permission of instructor.

**Corequisite(s):** MEE 431L.

**MEE 427** MECHANICAL DESIGN I
Stress and deflection analysis of machine components; theories of failure; fatigue failure of metals. Design and analysis of mechanical components such as gears, shafts, bearings and springs.

**Prerequisite(s):** EGM 303; MEE 321.

**Corequisite(s):** MEE 431L.

**MEE 428** MECHANICAL DESIGN II
Advanced topics in stress and deflection analysis; analysis and design of mechanical elements such as gears, journal and ball bearings, belts, brakes, and clutches; principles of fracture mechanics; failure analysis; machinery construction principles. Contemporary design methods and issues associated with the product development cycle.

**Prerequisite(s):** MEE 427.

**MEE 431L** MULTIDISCIPLINARY ENGINEERING DESIGN LABORATORY I
Multidisciplinary team design projects applying general mechanical engineering knowledge. Product development using product realization process (PRP) including: proposal development; design specifications, conceptualization and decision analysis. Projects normally result in a final design and prototyping in a follow-on course. Projects supplemented with an introduction to mechanical components and Computer Aided Engineering (CAE) methods.

**Corequisite(s):** MEE 425 or 427.

**MEE 432L** MULTIDISCIPLINARY ENGINEERING DESIGN LAB II
One hour lecture and five hours of lab per week. Focus of the lecture is on engineering project management, including communication, collaboration, project tracking methods, cost estimating, overhead, direct labor, time value of money, depreciation and return on community based sponsors. Detailed evaluation of the Product Realization Process focusing on conceptual design, embodiment design, final design and prototyping. Analysis of the design criteria for safety, ergonomics, environment, cost and sociological impact. Periodic oral and status reports. Culminates in a comprehensive written report and oral presentation.

**Prerequisite(s):** MEE 425 or 427.

**MEE 433** 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.

**MEE 434** MECHATRONICS
Emphasis on the integration of sensors, micro-controllers, electromechanical actuators, and control theory in a 'smart' system for a semester long design project. Topics include: sensor signal processing, electromechanical actuator fundamentals, interfacing of sensors and actuators to micro-controllers, digital logic, and programming of micro-controllers, programmable logic controllers and programmable logic devices. Equal mix of lecture and laboratory.

**Prerequisite(s):** ECE 323.
MEE 436  VEHICLE PERFORMANCE ANALYSIS
Prerequisite(s): MEE 308 or permission of instructor.

MEE 438  ROBOTICS AND FLEXIBLE MANUFACTURING
Overview of industrial robots; physical configuration, operation, and programming of robots; actuators, drive mechanisms, sensors, vision systems, controls, and control methods for robots; economic considerations; and automated factory concept.
Prerequisite(s): MEE 321.

MEE 439  DYNAMIC SYSTEMS AND CONTROLS
Dynamic systems modeling with special emphasis on mechanical systems (one and two degrees of freedom). Covers both transfer function and state space modeling techniques. Analogues drawn between mechanical, electrical, fluid, and thermal physical domains. System nonlinearities and model linearization methods are discussed. Analytical solutions of linear ordinary differential equations using Laplace transformation and state space theory. Feedback control theory, including root locus and frequency response techniques.
Prerequisite(s): EGM 202; MTH 219.

MEE 440  FLIGHT VEHICLE PERFORMANCE
This course is intended to introduce the student to the flight mechanics of aerospace vehicles. Some familiarity with aircraft performance, static stability and control is assumed, but not required. We will use modern analysis methods to develop the topical details including: 1) a study of aerodynamics involved in-flight vehicle motion to obtain an understanding of influence coefficients; 2) use of linear algebra to develop a rational approach to modeling aircraft dynamics; 3) an introduction to modern control theory methodology; and 4) problems and examples that illustrate the use of desktop computational tools currently available.
Prerequisite(s): (EGM 202; MEE 401, 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  DESIGN FOR ENVIRONMENT
Emphasis on design for environment over the life cycle of a product or process, including consideration of the mining, processing, manufacturing, use, and post-life stages. Course provides knowledge and experience in invention for the purpose of clean design, life cycle assessment strategies to estimate the environmental impact of products and processes, and cleaner manufacturing practices. Course includes a major design project.

MEE 473  RENEWABLE ENERGY SYSTEMS
Introduction to the impact of energy on the economy and environment. Engineering models of solar thermal and photovoltaic systems. Introduction to wind power. Fuel cells and renewable sources of hydrogen.

MEE 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 498 Research and Innovation Laboratory

Students participate in (1) selection and design, (2) investigation and data collection, (3) analysis, and (4) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

MEE 499 Special Problems in Mechanical and Aerospace Engineering

Particular assignments to be arranged and approved by department chairperson.
College of Arts and Sciences

(MIL) Military Science, ROTC

(Collapse Description)

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 course1 (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 must complete MIL 301, 302, 401, and 402. Students desiring to minor in military science should notify their respective deans and the Department of Military Science.

The ROTC program is also available to students with three or two years remaining on campus, including graduate students. Special programs, such as ROTC summer 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 sophomores 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, MIL 121, 122, 123 complete requirements for MIL 101 and 102 at UD; MIL 221, 222, 223 complete requirements for MIL 201 and 202.

Faculty
Lt. Col. Charles Schretzman, U.S. Army, Chairperson
Professor: Schretzman
Assistant Professors: Adams, Bender, Womack
Instructors: Dohr, Gautreaux

Majors/Minors
Major/Minor Name

[] Minor in Military Science, ROTC (MIL)

<table>
<thead>
<tr>
<th>Military Science, ROTC</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML 301, 302, 401, 402</td>
<td>12</td>
</tr>
</tbody>
</table>

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML 101</td>
<td>LEADERSHIP I</td>
<td>1</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 102</td>
<td>LEADERSHIP II</td>
<td>1</td>
</tr>
<tr>
<td>Rifle marksmanship, fundamentals and principles of leadership, management techniques for individual, group behavior and leadership dimensions. Optional physical training, leadership laboratory, and social events.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 201</td>
<td>MAP READING AND SMALL UNIT TACTICS</td>
<td>2</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 202</td>
<td>MILITARY LEADERSHIP</td>
<td>2</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 301</td>
<td>LEADING SMALL ORGANIZATIONS I</td>
<td>3</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 302</td>
<td>LEADING SMALL ORGANIZATIONS II</td>
<td>3</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 401</td>
<td>LEADERSHIP MANAGEMENT AND STAFF</td>
<td>3</td>
</tr>
</tbody>
</table>
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.

ML402 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.

ML411 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.

ML412 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.

ML477 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.

ML478 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 477 and approval of University Honors Program.
College of Arts and Sciences

(MUS) Music

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, and Celebration Vocal Transit, University Orchestra, Symphonic Wind Ensemble, Concert Band, "Pride of Dayton" Marching Band, Javanese Gamelan, Pep Band, Jazz ensembles, Early Music Ensemble, and instrumental chamber music groups.

The Department of Music offers five degree programs:

Bachelor of Arts with a major in Music (MUS)
Bachelor of Music with a major in Music Composition (MUC)
Bachelor of Music with a major in Music Therapy (MUT)
Bachelor of Music with a major in Music Education (MUE)

All prospective music students must be admitted to the University of Dayton by the Office of Admission. In addition, all prospective students must (1) furnish the Department of Music with letters of recommendation from their high school music teachers and/or performance teachers and (2) successfully complete the performance audition, preferably in person, but also via recording. Specific information regarding audition requirements and dates is available from the department office and the College website.

The Department of Music offers a minor in music and a minor in music technology for non-music majors.

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 residency 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 residency 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 residency.

Faculty

Sharon Davis Gratto, Chairperson
Professors Emeriti: Benedum, Sandness
Professors: Chenoweth, Cox, Gratto, Hartley, Magnuson, Snyder, Street
Associate Professors: Gardstrom, Morris, Reynolds
Assistant Professors: Jones, Liu, Maclachlan
Visiting Assistant Professor: Sink
Lecturers: Gross, Hiller, Porcaro
Artists-in-Residence: Benjamin, Farris, Leslie, McCutcheon

Majors/Minors
Major/Minor Name
Bachelor of Arts with a major in Music (MUS)

Music
Sem. Hrs.
Music Theory and Aural Skills 16
MUS 111, 112, 113, 114, 211, 212, 213, 214
Music History and Literature 9
MUS 301, 302, 303
Conducting 2
MUS 240
Performance studies, including functional keyboard skills 12
MUS 296, 297, 298, 299, (399 or 499)
Ensemble 4
MUS (390 or 491 or 492 or 493)
Recital attendance (seven semesters) 0
MUS 200

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy and Religious Studies including: 12
PHL 325
History (includes MUS 301) 6
Literature: English or Foreign Language 3
Creative and Performing Arts (including MUS or other arts) 3
Foreign Language and/or Additional Arts and/or Humanities 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1Choose from any MUS 390. See course descriptions.

Bachelor of Music with a major in Music Composition (MUC)

Music
Sem. Hrs.
Music Theory and Aural Skills 16
MUS 111, 112, 113, 114, 211, 212, 213, 214
Composition 12
MUS 121, 122, 221, 222, 321, 322, 421, 422
Music History and Literature 9
MUS 301, 302, 303
Score reading 2
MUS 314
Orchestration or arranging 4
MUS (316 or 318), 416
Conducting 4
MUS 240, (345 or 346)
Performance Studies 12
MUS 296, 297, 298, 299, (399 or 499)
Ensemble 8
MUS (491 or 492 or 493)
Recital attendance (seven semesters)  
MUS 200

Professional Development Workshop (seven semesters)  
MUS 202

Theory and/or composition electives  
MUS electives

10

Communication Competencies
Philosophy and Religious Studies (includes PHL 325)  
Natural Sciences  
Mathematics (excludes MTH 102, 204, 205)  
Social and Behavioral Sciences  
History (HST 103 or 198)  
Other non-music electives  
Introduction to the University: ASI 150

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Competencies</td>
<td>0-9</td>
</tr>
<tr>
<td>Philosophy and Religious Studies (includes PHL 325)</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>History (HST 103 or 198)</td>
<td>3</td>
</tr>
<tr>
<td>Other non-music electives</td>
<td>9</td>
</tr>
<tr>
<td>Introduction to the University: ASI 150</td>
<td>0-1</td>
</tr>
<tr>
<td>General Education courses/academic electives to total at least</td>
<td>136</td>
</tr>
</tbody>
</table>

1. Each composition major must present one and a half recitals of original work by the senior year.
2. Functional Keyboard Skills or equivalent is required.
3. May substitute MUS 390 with permission.

Bachelor of Music with a major in Music Education (MUE)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Functional keyboard skills</td>
<td>4</td>
</tr>
<tr>
<td>MUS 296, 297, 298, 299</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 318</td>
<td></td>
</tr>
<tr>
<td>Introduction to music education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 231</td>
<td></td>
</tr>
<tr>
<td>Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year (seven semesters)</td>
<td>14</td>
</tr>
<tr>
<td>MUS 399</td>
<td></td>
</tr>
<tr>
<td>Recital attendance (seven semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 200</td>
<td></td>
</tr>
<tr>
<td>Ensemble</td>
<td>5</td>
</tr>
<tr>
<td>General (five semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS (491 or 492 or 493)</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td></td>
</tr>
</tbody>
</table>

Additional requirements for band specialization

<table>
<thead>
<tr>
<th>Music Education</th>
<th>28.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 195, 236, 331, 332, 335, 336, 337, 338, 339, 340, 430, 431</td>
<td></td>
</tr>
<tr>
<td>Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS 240, 346</td>
<td></td>
</tr>
<tr>
<td>Small Ensembles (four semesters at 0.5 sem. hrs. each)</td>
<td></td>
</tr>
</tbody>
</table>

Additional requirements for orchestra specialization

| 30.5 |
Music Education
   MUS 195, 236, 331, 332, 335, 336, 337, 338, 339, 340
Conducting
   MUS 240, 346
String minor (two semesters)
   MUS 399
Small Ensembles (four semesters at 0.5 sem. hrs. each)

Additional requirements for choral specialization^2
   Music Education
      MUS 235, 237, 238, 331, 332, 335, 338, 339, 340
Conducting
   MUS 240, 345
Guitar
   MUS 195, 295
Diction and literature
   MUS 408
Piano or voice minor (two semesters)
   MUS 399
Ensembles

Additional requirements for classroom specialization^2
   Music Education
      MUS 235, 237, 238, 331, 332, 335, 338, 339, 340
Conducting
   MUS 240
Guitar
   MUS 195, 295
Improvisation
   MUS 381
Piano or voice minor (three semesters)
   MUS 399
Ensembles

Teacher Education^1
   EDT 110, 110L, 207, 207L, 305, 459, 479

Communication Competencies
   0-9
Philosophy and Religious Studies including:
   PHL 325
Natural Sciences
   6
Mathematics (excludes MTH 102, 204, 205)
   3
Social and Behavioral Sciences
   3
History
   HST (103 or 198)
   3
Introduction to the University: ASI 150
   0-1

General Education courses/academic electives to total at least
   139.5

^1 Students in the music education program are required to maintain a 2.5 cumulative grade point average, and a 2.5 cumulative average in teacher education and music courses.

^2 Students will select one of four speciality areas (band, choral, classroom, or orchestra). Upon completion of the degree, candidates will receive a provisional multi-age license from the State of Ohio to teach classroom, instrumental, and vocal music from pre-kindergarten through senior high school.
Two semesters of this course must be completed for a total of two semester hours.

Two semesters of MUS 338 must be completed for a total of one and a half semester hours.

Choose from any one half semester hour MUS 390. See course descriptions.

One semester of MUS 338 must be completed for a total of one semester hour.

Bachelor of Music with a major in Music Performance (MUP)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
<tr>
<td>Conducting and Arranging</td>
<td>4</td>
</tr>
<tr>
<td>MUS 240, 318</td>
<td></td>
</tr>
<tr>
<td>Performance Studies</td>
<td>36</td>
</tr>
<tr>
<td>Major area of specialization</td>
<td>24-32</td>
</tr>
<tr>
<td>Minor area of specialization</td>
<td>4-12</td>
</tr>
<tr>
<td>Ensemble</td>
<td>8</td>
</tr>
<tr>
<td>MUS (481 or 492 or 493)</td>
<td></td>
</tr>
<tr>
<td>Recital attendance (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td></td>
</tr>
<tr>
<td>Professional Development Workshop (seven semesters)</td>
<td></td>
</tr>
<tr>
<td>MUS 202</td>
<td></td>
</tr>
<tr>
<td>MUS electives</td>
<td>14</td>
</tr>
</tbody>
</table>

| Communication Competencies | 0-9 |
| Philosophy and Religious Studies including: | 12 |
| PHL 325 | |
| Natural Sciences | 6 |
| Mathematics (excludes MTH 102, 204, 205) | 3 |
| Social and Behavioral Sciences | 6 |
| History (HST 103 or 198) | 3 |
| Other non-music electives | 3 |
| Introduction to the University: ASI 150 | 0-1 |

General Education courses/academic electives to total at least 136

Performance study in major area must lead to a full senior solo recital.

Bachelor of Music with a major in Music Therapy (MUT)

<table>
<thead>
<tr>
<th>Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills</td>
<td>16</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 211, 212, 213, 214</td>
<td></td>
</tr>
<tr>
<td>Music History and Literature</td>
<td>9</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td></td>
</tr>
</tbody>
</table>
Conducting and Arranging  
MUS 240, 318  
Performance studies on the student's principal instrument leading to a minimum of a half-recital during the junior or senior year.  
MUS 399  
Vocal and instrumental methods, including accompanying instruments of piano and guitar  
MUS 195, 295, 296, 297, 298, 299, 338\textsuperscript{1}  
Select one semester hour from:  
MUS 237, 238, 239  
Music therapy, including core courses and practica  
MUS 280, 282, 285, 286, 287, 288, 289, 290, 381, 382, 385, 386, 387, 388, 486  
Music and dance electives  
5  
Ensemble  
MUS (491 or 492 or 493)  
Recital attendance (seven semesters)  
MUS 200  
Professional Development Workshop (seven semesters)  
MUS 202  
Music therapy internship  
MUS 489\textsuperscript{3}  
Psychology  
PSY 101, 351, 355, 363  
Sciences including:  
HSS 305  
Communication Competencies  
0-9  
Philosophy and Religious Studies including:  
PHL 325  
Mathematics (excludes MTH 102, 204, 205)  
Recommended  
MTH 207  
History (HST 103 or 198)  
3  
Introduction to the University: ASI 150  
0-1  
General Education courses/academic electives to total at least  
133

\textsuperscript{1}One semester of MUS 338 must be completed for a total of one semester hour.  
\textsuperscript{2}Choose from any MUS 390. See course descriptions.  
\textsuperscript{3}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.

Certificate in Church Music (MCH)  

<table>
<thead>
<tr>
<th>Church Music</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 110\textsuperscript{1}</td>
<td>2</td>
</tr>
<tr>
<td>MUS 350</td>
<td>3</td>
</tr>
<tr>
<td>MUS 351</td>
<td>2</td>
</tr>
<tr>
<td>MUS 390</td>
<td>1</td>
</tr>
<tr>
<td>MUS 399</td>
<td>1 - 2</td>
</tr>
<tr>
<td>MUS 452</td>
<td>2</td>
</tr>
<tr>
<td>MUS 459</td>
<td>2</td>
</tr>
</tbody>
</table>
Select one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 240</td>
<td>FUNDAMENTALS OF CONDUCTING</td>
<td>2</td>
</tr>
<tr>
<td>MUS 545</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Religious Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 446</td>
<td>CHRISTIAN LITURGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Select total of six semester hours of study from the following Church Music Workshops:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 318</td>
<td>FUNDAMENTALS OF ARRANGING</td>
<td>2</td>
</tr>
<tr>
<td>MUS 461</td>
<td>SPECIAL TOPICS IN CHURCH MUSIC</td>
<td>1 - 8</td>
</tr>
<tr>
<td>MUS 505</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 506</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. May substitute additional credits in performance studies or church music workshops for MUS 110.
2. Or two to three semester hours of a suitable religious studies course.

Minor in Music (MUS)

<table>
<thead>
<tr>
<th>Music Technology (select an option)</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory</td>
<td>8</td>
</tr>
<tr>
<td>Option A</td>
<td>8</td>
</tr>
<tr>
<td>MUS 115, 116, (217 or 218), 301, 302</td>
<td>14</td>
</tr>
<tr>
<td>Music electives&lt;sup&gt;1,2&lt;/sup&gt;</td>
<td>8</td>
</tr>
<tr>
<td>Track B</td>
<td>14</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114, 301, 302</td>
<td>14</td>
</tr>
<tr>
<td>Music electives&lt;sup&gt;1,2&lt;/sup&gt;</td>
<td>8</td>
</tr>
</tbody>
</table>

1. Must include six semester hours at the 300- or 400-level.
2. No more than two semester hours of ensemble (MUS 390, 491, 492, 493) will count toward the minor.

Minor in Music Technology (MUS)

The Department of Music offers a minor in Music Technology non-music majors. The minor emphasizes sound musicianship, combining a traditional approach to the study of music with a concentration in the theories, techniques, and technologies currently applied in all aspects of music production recording and media integration. Students will receive training in analog and digital audio recording techniques as well as MIDI, multimedia, video, and other computer applications.

<table>
<thead>
<tr>
<th>Music Technology</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory (select an option)</td>
<td>8</td>
</tr>
<tr>
<td>Option A</td>
<td>8</td>
</tr>
<tr>
<td>MUS 115, 116, (217 or 218)</td>
<td>14</td>
</tr>
<tr>
<td>Option B</td>
<td>14</td>
</tr>
<tr>
<td>MUS 111, 112, 113, 114</td>
<td>14</td>
</tr>
<tr>
<td>Music Technology</td>
<td>5</td>
</tr>
<tr>
<td>MUS 223, 323</td>
<td>5</td>
</tr>
<tr>
<td>Applied Studies&lt;sup&gt;1&lt;/sup&gt;</td>
<td>6</td>
</tr>
<tr>
<td>MUS 399, 499</td>
<td>6</td>
</tr>
<tr>
<td>Ensembles&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>MUS 491, 492, 493</td>
<td>2</td>
</tr>
<tr>
<td>Music History and Music Literature (select one)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 301, 302, 303</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
3. Choose from any MUS 390. See course descriptions.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 104</td>
<td>MUSIC LITERATURE FOR THE ELEMENTARY CLASSROOM</td>
<td>2</td>
</tr>
<tr>
<td>MUS 110</td>
<td>FUNDAMENTALS OF MUSIC</td>
<td>2</td>
</tr>
<tr>
<td>MUS 111</td>
<td>THEORY OF MUSIC I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 112</td>
<td>THEORY OF MUSIC II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 113</td>
<td>AURAL SKILLS I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 114</td>
<td>AURAL SKILLS II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 115</td>
<td>MUSIC IN THEORY AND PRACTICE</td>
<td>3</td>
</tr>
<tr>
<td>MUS 116</td>
<td>MUSIC IN THEORY AND PRACTICE</td>
<td>3</td>
</tr>
<tr>
<td>MUS 121</td>
<td>COMPOSITION I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 122</td>
<td>COMPOSITION I</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 191</td>
<td>VOICE CLASS</td>
</tr>
<tr>
<td></td>
<td>Basic principles of good singing; development of the voice; vocal literature. Open to all students, especially non-music majors.</td>
</tr>
<tr>
<td>MUS 195</td>
<td>BEGINNING GUITAR CLASS I</td>
</tr>
<tr>
<td></td>
<td>Introduction to playing the guitar with emphasis on chord playing and accompaniment, improvisation, and application of the guitar to music teaching.</td>
</tr>
<tr>
<td>MUS 196</td>
<td>GROUP PIANO I</td>
</tr>
<tr>
<td></td>
<td>For the student with no previous piano study. Rudiments of music reading, performance of simple folk and popular music, basic knowledge of scales, key signatures, and chords. Open to all University students. Fee.</td>
</tr>
<tr>
<td>MUS 200</td>
<td>RECITAL ATTENDANCE</td>
</tr>
<tr>
<td></td>
<td>All music majors are required to attend professional and student concerts and recitals, to develop critical listening experience and knowledge of repertoire.</td>
</tr>
<tr>
<td>MUS 201</td>
<td>MUSIC IN CONCERT</td>
</tr>
<tr>
<td></td>
<td>A survey of music literature, styles, and important composers, through preparation for and attendance at selected concerts on the campus and in the community. Concert ticket fees will be required. Open to all University students.</td>
</tr>
<tr>
<td>MUS 202</td>
<td>PROFESSIONAL DEVELOPMENT WORKSHOP</td>
</tr>
<tr>
<td></td>
<td>All Bachelor of Music majors are required to attend a weekly professional workshop in their degree area. Course format is didactic and/or experiential according to degree program needs. Course material includes a variety of professional, pedagogical, and technological topics. May be repeated.</td>
</tr>
<tr>
<td>MUS 203</td>
<td>SIGHTS AND SOUNDS OF MUSIC</td>
</tr>
<tr>
<td></td>
<td>An introduction to music and its literature, with emphasis on the way music has been shaped by its cultural, geographic, and historical contexts. Open to all University students.</td>
</tr>
<tr>
<td>MUS 205</td>
<td>MUSIC, INSTRUMENTS, AND TECHNOLOGY</td>
</tr>
<tr>
<td></td>
<td>A survey of music literature, styles, and important composers, and the way the development of instruments has influenced changes in musical style. The course will also consider the ways technology has altered our approach and access to music making, listening, and dissemination in the twentieth century. Open to all University students.</td>
</tr>
<tr>
<td>MUS 211</td>
<td>THEORY OF MUSIC III</td>
</tr>
<tr>
<td></td>
<td>Advanced diatonic and chromatic harmonic vocabulary studies and Schenkerian analysis, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. <strong>Prerequisite(s):</strong> (MUS 112 with grade of C- or better) or permission of instructor.</td>
</tr>
<tr>
<td>MUS 212</td>
<td>THEORY OF MUSIC IV</td>
</tr>
<tr>
<td></td>
<td>Music of the twentieth century, emphasizing both writing and analysis skills. Assignments are done with computer notation programs, and portions of the course use web-based texts. <strong>Prerequisite(s):</strong> (MUS 211 with a grade of C- or better) or permission of instructor.</td>
</tr>
<tr>
<td>MUS 213</td>
<td>AURAL SKILLS II</td>
</tr>
</tbody>
</table>

7/16/2012 3:10 PM
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
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  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  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 211, 212) or (MUS 115, 116) or permission of instructor.

MUS 221  COMPOSITION II
Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. **Prerequisite(s):** MUS 211 (may be taken as a corequisite).

MUS 222  COMPOSITION II
Supplemental explorations for majors in music composition, to accompany work in MUS 211-212. Style analysis and synthesis, extension of traditional techniques, and basic instrumental applications. **Prerequisite(s):** MUS 212, 221, (may be taken as corequisites).

MUS 223  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  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
Primarily for Teacher Education majors. Development of knowledge, skills, values, and attitudes in music for integration into a classroom setting in which other classroom subjects are taught. **Prerequisite(s):** EDT 110.

MUS 235  VOICE PEDAGOGY
Techniques for teaching singing. **Prerequisite(s):** Voice major or permission of instructor.

MUS 236  VOICE LABORATORY
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 237</td>
<td>BRASS INSTRUMENT LABORATORY</td>
<td>Introduction to the performance and pedagogical techniques for the brass instrument family.</td>
</tr>
<tr>
<td>MUS 238</td>
<td>WOODWIND INSTRUMENT LABORATORY</td>
<td>Introduction to the performance and pedagogical techniques for the woodwind instrument family. Fee.</td>
</tr>
<tr>
<td>MUS 240</td>
<td>FUNDAMENTALS OF CONDUCTING</td>
<td>Introductory-level course discussing basic conducting techniques, musical styles, interpretation, score study and analysis, transposition, and literature. Dual emphasis of choral and instrumental techniques.</td>
</tr>
<tr>
<td>MUS 260</td>
<td>MUSIC AND MOVEMENT FOR PERSONS WITH DISABILITIES</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 282</td>
<td>FUNCTIONAL MUSIC THERAPY SKILLS</td>
<td>Introduction to melodic and percussive nonsymphonic instruments and voice with particular emphasis on developing a variety of functional clinical skills in both active and receptive music therapy techniques for children and adults.</td>
</tr>
<tr>
<td>MUS 285</td>
<td>INTRODUCTION TO MUSIC THERAPY</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 286</td>
<td>MUSIC THERAPY METHODS</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 287</td>
<td>PRACTICUM IN MUSIC THERAPY I</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 288</td>
<td>PRACTICUM IN MUSIC THERAPY II</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 289</td>
<td>PRACTICUM IN MUSIC THERAPY III</td>
<td>Supervised pre-internship field experiences with children and/or adults with special needs. One-hour weekly lab required.</td>
</tr>
<tr>
<td>MUS 290</td>
<td>MUSIC THERAPY TREATMENT PROCESSES</td>
<td>Addresses the development of established competencies in the areas of music therapy referral, assessment, treatment planning, evaluation, supervision, and documentation of these processes.</td>
</tr>
<tr>
<td>MUS 293</td>
<td>ORGAN CLASS</td>
<td>Introduction to the organ, including basic performance techniques, registration, beginning literature, and hymn playing. Fee.</td>
</tr>
<tr>
<td>MUS 294</td>
<td>HARPSICHORD CLASS</td>
<td>Beginning course in harpsichord performance, including basic technique, stylistic considerations, and simple maintenance and tuning of the instrument. Fee.</td>
</tr>
</tbody>
</table>
MJS 295 BEGINNING GUITAR CLASS II  
Note reading in first position; advanced chord work, introduction to chord solo playing, and improvisation.  
Prerequisite(s): MUS 195 or equivalent.

MJS 296 FUNCTIONAL KEYBOARD SKILLS I  
Instruction in development of basic performance technique, sight reading, accompanying, transposing, playing by ear, improvising, and score reading. Fee.

MJS 297 FUNCTIONAL KEYBOARD SKILLS II  
Further development of techniques introduced in MUS 296. Fee.  
Prerequisite(s): MUS 296.

MJS 298 FUNCTIONAL KEYBOARD SKILLS III  
Continuation of MUS 297 with emphasis on improvisation and harmonization techniques. Fee.

MJS 299 FUNCTIONAL KEYBOARD SKILLS IV  
Continuation of MUS 298 with emphasis on advanced chord work and modulation techniques. Fee.  
Prerequisite(s): MUS 298.

MUS 301 MUSIC HISTORY AND LITERATURE I  
A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 302 MUSIC HISTORY AND LITERATURE II  
A survey of Western music history and literature from the Middle Ages to the present. Important composers, masterworks of music literature, compositional styles.

MUS 303 INTRODUCTION TO MUSIC OF THE WORLD  
A survey of music from representative cultures around the world, and its role and function in society.

MUS 304 HISTORY OF AMERICAN MUSIC  
Survey of the American musical heritage emphasizing Anglo- and Afro-American folk traditions, early religious music, country music, pioneers in piano, band and concert music, and contemporary popular music. Open to all University students.

MUS 305 AFRICAN-AMERICAN SACRED MUSIC  
A historical survey of African-American sacred music from its African roots to the present with an emphasis on developments in recent decades. Examines spirituals, the ring-shout, civil rights songs, the various forms of Gospel music, traditional hymnody of the African-American church, and the musical aspects of black preaching. Open to all University students.

MUS 306 HISTORY OF AMERICAN JAZZ  
Survey of the literature and performance practices from 1890 to the present. Includes blues, Dixieland, ragtime, boogie-woogie, swing, bop, cool, funky, and current techniques. Open to all University students.

MUS 307 DEVELOPMENT OF AMERICAN POPULAR SONG  
Survey of American popular music from the days of the colonies, the war years, the ballad opera, minstrel, vaudeville, operetta, early film music, through Tin Pan Alley to Broadway, including European influences. Open to all University students.

MUS 308 CHAMBER MUSIC AND SYMPHONY  
Formal and harmonic analysis of chamber music. Formal analysis of symphonies of classic, romantic, and contemporary composers  
Prerequisite(s): MUS 211, 212.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 309</td>
<td>OPERA HISTORY AND LITERATURE</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 310</td>
<td>MOZART’S OPERAS</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 311</td>
<td>EIGHTEENTH-CENTURY COUNTERPOINT</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 211, 212.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 312</td>
<td>SIXTEENTH-CENTURY COUNTERPOINT</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 313</td>
<td>ADVANCED AURAL SKILLS</td>
<td>2</td>
<td>Advanced training in dictation, solfege, and aural analysis.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 215.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 314</td>
<td>SCORE READING</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 316</td>
<td>FUNDAMENTALS OF ORCHESTRATION</td>
<td>2</td>
<td>Instrumentation studies of the four main orchestral families: woodwinds, brass, percussion, strings. Some work in combining families.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 212.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 318</td>
<td>FUNDAMENTALS OF ARRANGING</td>
<td>2</td>
<td>Arranging studies for woodwinds, brass, percussion, strings, and choir. Individual examination of instruments; projects.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 212.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 321</td>
<td>COMPOSITION III</td>
<td>2</td>
<td>Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 214.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 322</td>
<td>COMPOSITION III</td>
<td>2</td>
<td>Beginning explorations of original composition which utilize equally the concepts of pitch, temporal elements, timbres, and dynamics.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 321.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 323</td>
<td>RECORDING ARTS AND DIGITAL MEDIA</td>
<td>3</td>
<td>Comprehensive overview of digital audio and digital visual media. Skills in recording, archiving, and presenting work.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>MUS 223 or permission of instructor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 325</td>
<td>BEETHOVEN AND HIS ERA</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 327</td>
<td>MUSIC IN FILM</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
A survey of the styles, aesthetics, and techniques of film music, emphasizing the interaction of music and visual image in film. Consideration of the changes in the evolution of both film and film music, and their relationship to culture and society.

MUS 328 HISTORY OF THE AMERICAN MUSICAL
A survey of the history and literature of the American musical from its 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 MUSIC METHODS
Pedagogical techniques for choral ensembles. Topics include the singing voice, the changing voice, organization, artistic development, literature, and rehearsal techniques. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 332 INSTRUMENTAL MUSIC METHODS
Pedagogical techniques for band and orchestra. Topics include teaching and rehearsal techniques, organization, assessment, learning theories, philosophy, literature, and programming. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 335 CLASSROOM MUSIC METHODS
Pedagogical techniques for classroom music grades preK-8. Topics include the pedagogical methods of Orff, Kodaly, Suzuki, and Dalcroze; lesson-plan design, implementation, and assessment. Special emphasis on the exceptional learner. National Standards are emphasized as they relate to specific objectives. Current related practices in technology are incorporated in specific assignments. Field experience required.

MUS 336 WOODWIND PEDAGOGY
Course in woodwind pedagogy offered in two semester-long sections: (1) pedagogical techniques for clarinet and flute; (2) pedagogical techniques for saxophone, oboe, and bassoon. Repeatable up to two semester hours. Fee.

MUS 337 BRASS PEDAGOGY
Course in brass pedagogy offered in two semester-long sections (1) pedagogical techniques for trumpet and horn; (2) pedagogical techniques for trombone, euphonium, and tuba. Repeatable up to two semester hours. Fee.

MUS 338 PERCUSSION PEDAGOGY
Course in percussion pedagogy offered in two semester-long sections: (1) Pedagogical techniques for the percussion instruments; (2) performance study on snare drum, mallets and timpani; teaching techniques for accessory instruments; minor repairs: method book analysis. Repeatable up to one and a half semester hours. Fee.

MUS 339 STRING PEDAGOGY
Pedagogical techniques for the string instruments. Separate sections for upper strings and lower strings. Each section is a full-term course. Fee.

MUS 340 MUSIC EDUCATION FOR STUDENTS WITH SPECIAL NEEDS
Introduction to issues affecting music education with students who have physical, cognitive, emotional, and sensory challenges that affect the learning process. Specific musical characteristics and needs of special learners will be presented along with methods and strategies for teaching. Information and guidelines regarding regulatory issues related to music education will be addressed. Field experience required.
Prerequisite(s): MUS 231.

MUS 345 CHORAL CONDUCTING
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for choral ensembles.
Prerequisite(s): MUS 240.
MJS 346 INSTRUMENTAL CONDUCTING
Continuation of techniques introduced in MUS 240, dealing specifically with techniques for band and orchestra.
Prerequisite(s): MUS 240.

MJS 350 SACRED MUSIC HISTORY
A survey of the development of Christian Music and its function in worship. The focus will be on historical styles, including both their impact on and their application within liturgical settings, as well as on the religious reflections engendered by specific works.

MJS 351 CHURCH MUSIC ADMINISTRATION
Examination of the process, organization, administration, planning, and presentation of church music in various Christian traditions. Attention is given to concepts of worship planning, the organization of a comprehensive music program, program development and the relationship between the music ministry and various other church entities.

MJS 360 SPECIAL TOPICS IN MUSIC
Studies in specialized areas of music. May be repeated as topics change, up to six semester hours.
Prerequisite(s): Permission of instructor.

MJS 381 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION I
Music improvisation techniques and procedures using piano, percussion, voice, guitar, and student's major instrument. Emphasis on the acquisition of clinical and educational music improvisational skills to be applied in the medical, rehabilitation, clinical and/or school music education setting.
Prerequisite(s): MUS 112, 114, 297.

MJS 382 CLINICAL AND EDUCATIONAL MUSIC IMPROVISATION II
Intermediate skill development in clinical and educational music improvisation. Emphasis on assessment, implementation, and evaluation of individual, dyadic, and group improvisatory experiences. Acquisition of expressive movement repertoire to improvised music.
Prerequisite(s): MUS 381.

MJS 385 MUSIC THERAPY PRINCIPLES
Principles and processes underlying the applications of music in therapy, including philosophical approaches, assessment procedures, goals and objectives, evaluation and documentation techniques, and professional ethics and standards of clinical practice.

MJS 386 MUSIC AND PSYCHOTHERAPY
Overview of concepts, methods, and materials in the clinical practice of various forms of music psychotherapy. Exploration of the role and function of music within other therapeutic approaches (e.g., cognitive, humanistic, etc.). Identification of factors and issues affecting the helping process.

MJS 387 PRACTICUM IN MUSIC THERAPY IV
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.
Corequisite(s): MUS 385.

MJS 388 PRACTICUM IN MUSIC THERAPY V
Supervised pre-internship experiences with children and/or adults with special needs. One-hour weekly lab required.
Corequisite(s): MUS 386.

MJS 390 BRASS ENSEMBLE
Study of repertoire for small brass ensembles including brass quintet, horn ensemble, and others. Audition required.

MJS 390 CLASSICAL GUITAR ENSEMBLE
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MJS 390</td>
<td>HANDS IN HARMONY</td>
<td>0.5</td>
<td>A sign-singing ensemble.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>INDOOR MARCHING PERCUSSION ENSEMBLE</td>
<td>0.5</td>
<td>Study of marching percussion instruments (snare, tenors, melodic bass drums, cymbals, electric bass, electronic keyboards, and &quot;pit&quot; percussion). Preparation of a full indoor show, with music, drill, choreography, and staging. Experience necessary for snare drum, tenor sections.Appearances at area exhibitions and competitions. Winter semester only. Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>JAZZ COMBO</td>
<td>0.5</td>
<td>Small ensemble study of works by major American jazz composers. Emphasis on group and individual improvisation. Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>JAZZ GUITAR ENSEMBLE</td>
<td>0.5</td>
<td>Performance techniques for the singer-actor through the study and performance of music from operatic literature. Improvisational exercises are incorporated. Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>OPERA WORKSHOP</td>
<td>0.5</td>
<td>Study and performance of concert repertoire for all combinations of percussion instruments, from duets to full percussion ensembles, with occasional piano or string bass accompaniment. Open to all majors and non-majors; experience with preferred but not required (on one or more of the following: snare drum, tympani, drum set, keyboard percussion, world and ethnic percussion, small accessory instruments.) Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>PIANO ENSEMBLE</td>
<td>0.5</td>
<td>Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>STRING ENSEMBLE</td>
<td>0.5</td>
<td>Audition required.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>UD GAMELAN ENSEMBLE</td>
<td>0.5</td>
<td>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.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>WOODWIND ENSEMBLE</td>
<td>0.5</td>
<td>A combination of woodwind instruments to include flute choir, clarinet choir, saxophone choir, woodwind quintet, and others.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>WORLD MUSIC CHOIR</td>
<td>0.5</td>
<td>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.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>CELEBRATION VOCAL TRANSIT</td>
<td>1</td>
<td>Students will study performance practices associated with American popular music forms (including pop, soul, jazz, gospel, musical theatre) with particular attention paid to improvisation in the various forms. Students will also learn microphone technique and basic use of PA systems. The semester culminates in a performance of solos, duets, and small ensemble selections.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>CHORAL UNION</td>
<td>1</td>
<td>Mixed voice ensembles performing music from all style periods in regular concert appearances. Open to all University students without audition.</td>
</tr>
<tr>
<td>MJS 390</td>
<td>DAYTON JAZZ ENSEMBLE</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Description</td>
<td></td>
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<td>-------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>EBBONY HERITAGE SINGERS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>LITURGICAL MUSIC LAB ENSEMBLE</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>MARCHING BAND</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>PEP BAND</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>UNIVERSITY CONCERT BAND</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 398</td>
<td>INSTRUMENTAL JAZZ IMPROVISATION</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 390</td>
<td>PERFORMANCE STUDIES</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 401</td>
<td>MEDIEVAL AND RENAISSANCE MUSIC</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 402</td>
<td>BAROQUE MUSIC</td>
<td>Literature and performing practices from 1600 to 1750; the relationship of music to social and cultural movements. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>MUS 403</td>
<td>CLASSIC AND ROMANTIC MUSIC</td>
<td>Literature and performing practices from 1750 to 1900; the relationship of music to social and cultural movements. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>MUS 404</td>
<td>TWENTIETH-CENTURY MUSIC</td>
<td>A 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.</td>
<td></td>
</tr>
<tr>
<td>MUS 405</td>
<td>PIANO LITERATURE</td>
<td>Comprehensive survey of literature for the piano. Required of piano performance majors.</td>
<td></td>
</tr>
</tbody>
</table>
MJS 408  DICTION AND LITERATURE FOR SINGERS
A course in foreign language diction with an associated survey of significant and representative works from the vocal solo repertoire. Course alternates its content: German and English; and French and Italian. Course may be repeated as content changes.
Prerequisite(s): MUS 399 or 499.

MJS 413  STYLE AND DESIGN - ANALYSIS
Exploration of appropriate analytical techniques as applied to Western music from the Renaissance to the present.
Prerequisite(s): MUS 212.

MJS 414  STYLE AND DESIGN - SYNTHESIS
Exploration and application of various musical styles as demonstrated by original compositions patterned after selected historic models.
Prerequisite(s): MUS 413.

MJS 416  ADVANCED ORCHESTRATION
Continuation of MUS 316. Intensive instrumentation studies and detailed analysis of orchestral work.
Prerequisite(s): MUS 316.

MJS 418  RESEARCH IN MUSIC THEORY
Practical experience in analysis for music composition majors.
Prerequisite(s): Senior standing in music.

MJS 419  RESEARCH IN MUSIC THEORY
Practical experience in analysis for music composition majors.
Prerequisite(s): Senior standing in music.

MJS 421  COMPOSITION IV
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.
Prerequisite(s): MUS 321, 322.

MJS 422  COMPOSITION IV
Advanced work in musical composition: writing multi-movement forms of both vocal and instrumental music.
Prerequisite(s): MUS 321, 322.

MJS 423  COMPOSITION FOR LARGE ENSEMBLES
Preparation and execution of an extended work for large instrumental or vocal ensemble. All aspects of score and part preparation, notation, orchestration, correction, rehearsal, and performance will be considered.

MJS 424  ADVANCED NOTATIONAL TECHNIQUES
Study of special problems in contemporary notation and calligraphy. Work will be done through analysis of twentieth-century techniques and creative solutions to individual problems.

MJS 425  ELECTRONIC MUSIC COMPOSITION
Study of musical electronic techniques, ranging from tape recorders and musique concrete through synthesizer and computer-generated and organized sound.

MJS 426  IMPROVISATIONAL MUSIC COMPOSITION
Discussion, study, and performance of improvisational musical techniques, including historical overview of classical extemporization, stream of consciousness, jazz, and aleatory and indeterminism.

MJS 430  JAZZ PEDAGOGY
Methods and materials for the organization and teaching of jazz performance classes. Topics include teaching improvisation, the rhythm section, and repertoire for the school jazz band. Field experience required.
Prerequisite(s): Participation in the jazz program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 431</td>
<td>MARCHING BAND PEDAGOGY</td>
<td>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. <strong>Corequisite(s):</strong> Participation in the marching band.</td>
</tr>
<tr>
<td>MUS 435</td>
<td>PIANO PEDAGOGY</td>
<td>Systematic preparation for the development of piano technique and tone; survey and study of graded teaching material of grades I and II. <strong>Prerequisite(s):</strong> Four terms of piano study or equivalent.</td>
</tr>
<tr>
<td>MUS 440</td>
<td>ADVANCED INSTRUMENTAL CONDUCTING</td>
<td>Individualized instruction dealing with advanced analysis, interpretation, aural skills, repertoire study, and conducting. <strong>Prerequisite(s):</strong> MUS 346.</td>
</tr>
<tr>
<td>MUS 452</td>
<td>CONTEMPORARY LITURGICAL MUSIC REPERTOIRE</td>
<td>Examination of ways in which contemporary musical resources are utilized in the worship of Christian churches. Choral, congregational, cantoral, and instrumental material will be considered in the context of both the liturgical seasons and specific services. REL 446 recommended.</td>
</tr>
<tr>
<td>MUS 459</td>
<td>CHURCH MUSIC INTERNSHIP</td>
<td>Minimum of one semester's supervised service as organist and/or choral director in an approved parish setting. <strong>Prerequisite(s):</strong> Completion of half of certificate requirements; permission of department chairperson.</td>
</tr>
<tr>
<td>MUS 460</td>
<td>SPECIAL STUDIES IN MUSIC</td>
<td>Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to nine semester hours. <strong>Prerequisite(s):</strong> Senior standing in music or permission of instructor.</td>
</tr>
<tr>
<td>MUS 461</td>
<td>SPECIAL TOPICS IN CHURCH MUSIC</td>
<td>Studies in specialized areas of music, including music therapy and music education. May be repeated as topics change, up to eight semester hours. <strong>Prerequisite(s):</strong> Senior standing in music or permission of instructor.</td>
</tr>
<tr>
<td>MUS 477</td>
<td>HONORS THESIS PROJECT</td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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. <strong>Prerequisite(s):</strong> Approval of University Honors Program.</td>
</tr>
<tr>
<td>MUS 478</td>
<td>HONORS THESIS PROJECT</td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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. <strong>Prerequisite(s):</strong> Approved 477; approval of University Honors Program.</td>
</tr>
<tr>
<td>MUS 486</td>
<td>RESEARCH IN MUSIC THERAPY</td>
<td>Introduction to research methods; review of literature on experimental studies. Research project.</td>
</tr>
<tr>
<td>MUS 489</td>
<td>MUSIC THERAPY INTERNSHIP</td>
<td>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. <strong>Prerequisite(s):</strong> Senior standing in music therapy; permission.</td>
</tr>
</tbody>
</table>
MUS 491  UNIVERSITY ORCHESTRA
Performing ensemble of string, wind, brass, and percussion players; preparing literature for orchestra and chamber orchestra. Open to all University community members by audition.

MUS 492  SYMPHONIC WIND ENSEMBLE
Select band that performs the finest in wind literature. Presents regular concerts during fall and winter terms. Auditions required.

MUS 493  UNIVERSITY CHORALE
Mixed vocal ensemble performing music from all style periods in regular concert appearances. Open to all University students. Auditions required.

MUS 499  PERFORMANCE STUDIES
Private instruction (one-hour lessons weekly) in the same subjects as MUS 399. Fee. Prerequisite(s): Permission of instructor.
College of Arts and Sciences

(PHL) Philosophy (Collapse Description)
The objective of the philosophy major program is to provide students with the opportunity to understand contemporary philosophy in view of the history of philosophy. Students majoring in philosophy must successfully complete a minimum of 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, Monasterio, Quinn, Ulrich, Zembaty
Professors: Benson, Fischer, Fouke, Inglis, Johnson, Kebede, Tibbets
Associate Professors: DesAutels, Mosser, Payne, Poe, Richards, Whisnant
Assistant Professors: Gabbe, James, McLeod, Paslaru
Lecturers: Lockwood, Marvin, Mullins, Velasquez

Majors/Minors (Collapse All)
Major/Minor Name
Bachelor of Arts with a major in Philosophy (PHL)

Sem. Hrs.

Philosophy 37
PHL 103, 240, (301 or 302) \(^{1}\), 350, 352, 375 16
Two seminars (400-level) 6

Tracks
Ethics and Social Justice 15
Select two courses from:
Philosophy electives 9

History of Philosophy 15
Select two courses from:
PHL 351, 353, 354, 361 6
Philosophy electives 9

Science, Technology, and Values 15
PHL 330 3
Select one course from:
PHL 306, 315, 316, 319, 321, 331, 332, 333, 334 3
Philosophy electives 9

Religion, Mind, and Metaphysics 15
PHL (308 or 311) 3
Select one course from:
PHL 309, 351, 355, 356, 360, 365 3
Philosophy electives 9

Culture and Human Diversity 15
Select two courses from:
PHL 307, 355, 361, 363, 364, 365, 373

Philosophy electives 9

Arts and Human Expression 15
Select two courses from:
PHL 320, 323, 324, 325, 362

Philosophy electives 9

Self-Designed 15
Philosophy electives 15

Liberal Studies Curriculum
Humanities and Fine Arts
Religious Studies 9
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities (excludes PHL courses) 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

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)

Sem. Hrs.

Philosophy 18
PHL 103, (301 or 302) 6
Select one course from:
PHL 350, 351, 352, 353, 354 3
PHL seminar (400-level) 3
Select six additional semester hours 6

Courses (Collapse All Courses)

Code Title Sem. Hrs.

PHL 103 INTRODUCTION TO PHILOSOPHY 3
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 METHODOLOGIES AND TECHNOLOGIES 1
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, 112) or PHL 103.

**PHL 301 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**

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, 112) or PHL 103.

**PHL 304 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, 112) or PHL 103.

**PHL 306 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, 112) or PHL 103.

**PHL 307 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, 112) or PHL 103.

**PHL 308 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, 112) or PHL 103.

**PHL 309 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, 112) or PHL 103.

**PHL 310 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, 112) or PHL 103.

**PHL 311 PHILOSOPHY OF RELIGION**

The main issues involved in religious belief and practice, such as the relationship between reason and revelation; critical presentation of views of main writers in the field.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 312 ETHICS**

Various types of moral and ethical theory in the Western tradition and major problems such as the extent of human responsibility and the conditions for making ethical judgments.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 313 BUSINESS ETHICS**
Review of general ethical theory; ethical assessments of incidents that often occur in commerce affecting employees, employers, consumers, competitors, or the local community.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 314**  
**PHILOSOPHY OF LAW**

Major concepts of law to include the nature of law, legal reasoning, liberty, justice, responsibility, punishment.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 315**  
**MEDICAL ETHICS**

Introduction to morality in general and inquiry into the major moral problems of medical practice: human life and the preservation of its integrity.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 315W**  
**PROBLEMS IN MEDICAL ETHICS**

An analysis of special ethical issues raised in a specific area of medical practice. Web-based course. May be repeated when topic changes.

**Prerequisite(s):** (ASI 111, 112) or PHL 103 (PHL 315 or REL 367 (may be taken as a corequisite)).

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**PHL 316**  
**ENGINEERING ETHICS**

Introduction to ethical issues in engineering by developing theories of moral justification and codes of ethics for engineers, and by applying these theories and codes to moral issues in engineering.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 317**  
**ETHICS AND MODERN WAR**

Study in applied ethics focusing on the implications of power politics and militarism; various ethical approaches used to evaluate wars, terrorism and violence; and an overview of some alternatives to war.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 318**  
**FAMILY ETHICS**

Introduction to the development of the concept of a family in the tradition of Western philosophy and the philosophic analysis of contemporary ethical problems in marriage and in parenthood.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 319**  
**INFORMATION ETHICS**

Examination of ethical principles, codes, cases, incidents, and issues in the design, implementation, and use of computerized information systems.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 320**  
**PHILOSOPHY OF ART**

Theories of art and criteria of evaluation developed by philosophers, artists, and critics; the relationship between art and society and between artistic and other human values.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 321**  
**ENVIRONMENTAL ETHICS**

Study of the principal ethical perspectives on the treatment of animals and nature including such issues as agriculture, energy, pollution, and economics; assessment of political responses to current environmental problems.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 323**  
**PHILOSOPHY AND LITERATURE**

Critical examination of philosophical concepts in selected literary masterpieces, ancient and modern.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

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**PHL 324**  
**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
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, 112) or PHL 103.

PHL 327  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, 112) or PHL 103.

PHL 328  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  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  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, 112) or PHL 103.

PHL 332  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, 112) or PHL 103.

PHL 333  PHILOSOPHY AND COGNITIVE SCIENCE
A 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, 112) or PHL 103.

PHL 334  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 IN PHILOSOPHY
Examination of perennial and contemporary problems of philosophy. May be repeated when topic changes. **Prerequisite(s):** (ASI 111, 112) or PHL 103.

PHL 345  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, 112) or PHL 103.

PHL 350  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, 112) or PHL 103.
PHL 351  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, 112) or PHL 103.

PHL 352  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, 112) or PHL 103.

PHL 353  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, 112) or PHL 103.

PHL 354  TWENTIETH-CENTURY PHILOSOPHY
A 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, 112) or PHL 103.

PHL 355  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, 112) or PHL 103.

PHL 356  CHRISTIAN PHILOSOPHY
Major issues such as the relation of faith to reason, the relation of science to faith, and the problem of natural law. Christian considerations of practical philosophy and social theory.
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

PHL 357  RADICAL PHILOSOPHY
Study of major attempts to develop a critical understanding of society; analysis of theories such as socialism, anarchism, feminism, critical theory, and critical race theory.
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

PHL 358  MARXIST PHILOSOPHY
Introduction to the thought of Karl Marx through a study of the historical setting of the man and his writings, along with recent interpretations of his thought.
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

PHL 360  EXISTENTIALISM
Major themes in representatives of the existentialist movement, such as human freedom, the absurdity of human existence, the primacy of action, and the roles of speculation and the emotions.
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

PHL 361  AMERICAN PHILOSOPHY
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  PHILOSOPHY OF LANGUAGE
Theories of meaning and reference and their philosophical significance.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 363 AFRICAN PHILOSOPHY**  
Introduction to African world views, ethical notions, and social ideas using analytical and comparative approaches; examination of concepts of human diversity and universality; analysis of the transition of traditional African culture to modernity.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 364 RACE, GENDER, AND PHILOSOPHY**  
A philosophical investigation into the systematic nature of racism and sexism, including inquiry into the epistemological, metaphysical, linguistic, and representational structures that sustain and perpetuate the power dynamics of western post-colonial patriarchial society.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 365 ISLAMIC PHILOSOPHY AND CULTURE**  
Examination of selected Islamic thinkers and philosophical traditions, from the period of the Ummayyad Caliphate to the postcolonial era, and their influence on Christian and Jewish thought. Islamic conceptions of law, political society, ethics, hermeneutics, science, revelation, and reality. Special emphasis upon the role of the arts in shaping Islamic philosophy.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 370 POLITICAL PHILOSOPHY**  
Philosophical theories regarding the nature of the state and the legitimization of political authority will be analyzed and evaluated in the context of philosophical conceptions of human nature, liberty, equality, justice, welfare, and power.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 371 PHILOSOPHY AND HUMAN RIGHTS**  
Examination of the nature and philosophical foundations of universal moral (human) rights; and application of human rights theory to issues and cases involving civil and political rights, and rights to equality, security, subsistence, education, welfare, employment, and health care.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 372 VALUES AND ECONOMICS**  
An inquiry into the impact of values and beliefs on the generation of modern economic forces. Analyzing capitalism as a system of validation of beliefs and values, the course relates underdevelopment with the conflict between tradition and modernity. It then reflects on the conditions of change liable to promote global expansion.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 373 PHILOSOPHY AND CULTURAL DIVERSITY**  
Philosophical investigation into historical, social, and political dimensions of human diversity in its various manifestations. Topics include colonialism, racism, multiculturalism, nationalism, and democracy.

**PHL 375 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 440 SEMINAR-ADVANCED PROBLEMS IN PHILOSOPHY**  
Detailed examination of some of the more technical problems of philosophy as well as those problems that arise in interdisciplinary settings upon which philosophers have brought their technical skills to bear. May be repeated when topic varies.  
**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 451 SEMINAR-INDIVIDUAL PHILOSOPHERS**
Detailed examination of the thought of an individual philosopher (e.g., Aquinas, Kant, Rawls, Quine) who is of sufficient importance to warrant special study. May be repeated when topic varies.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 461 SEMINAR - CONTEMPORARY EPISTEMOLOGY**

Study of recent philosophical work in the theory of knowledge inclusive of scepticism, knowledge and belief, evidence and justification, theories of perception and knowledge, human interests and valuation.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 462 SEMINAR - CONTEMPORARY ETHICS**

Study of recent philosophical work in ethics inclusive of an analysis of ethical concepts, theories of normative ethics, theories of human action, and moral justification.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 463 SEMINAR - CONTEMPORARY METAPHYSICS**

Study of recent work in metaphysics inclusive of the nature of metaphysics, causality, free will and determinism, personal identity and the theory of mind and body.

**Prerequisite(s):** (ASI 111, 112) or PHL 103.

**PHL 477 HONORS THESIS PROJECT**

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 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**

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, 112) or PHL 103; permission of department chairperson and instructor.

**PHL 492 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, 112) or PHL 103; permission of department chairperson and instructor.

**PHL 495 INTERN SHIP**

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, 112; PHL 103, 302, 350, 352; one 400-level seminar; permission of department chairperson.
College of Arts and Sciences

(PHY) Physics (Collapse Description)

The program leading to the Bachelor of Science with a major in physics is designed to provide a strong yet versatile basis for a subsequent scientific career or advanced study. Minimum requirements for all majors are listed below, but students planning for graduate work in physics or an allied area are advised to select additional mathematics and physics courses. A physics major must complete all 300-400-level courses with a 2.0 minimum grade-point average.

Students have the option of adding a multidisciplinary concentration in electro-optics to their physics degree. The concentration is appropriate for physics majors who wish to pursue possible careers in photonics or graduate degrees in the area of optics.

PHY, PSC, and PCS majors are required to attain a grade of C- or better in all physics and math courses that are prerequisite courses for physics courses required of majors.

A minor in physics consists of twelve semester hours.

Faculty

Rex L. Berney, Chairperson
Distinguished Professor: Bueche
Distinguished Service Professor: O'Hare
Professors Emeriti: Graham, Kepes, Miner, Yaney
Professors: Berney, Brecha, Elhamri, Ewaraye, Pedrotti, Powers
Associate Professors: Ahouja, Craver, Erdel, Smith
Assistant Professor: Zhao
Lecturers: Kariyawasam, Song

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science with a major in Physical Science (PSC)

The Physical Science Program is administered by the Department of Physics. It provides a broad training in the physical sciences that is desirable for one who plans to pursue a goal built on a composite science background. The physical science major combines adequate physics, chemistry, geology, and mathematics to provide a sound working knowledge of physical science. Since the program is less specialized than one in a single science, it has provision for adequate course selections and sufficient electives to provide the opportunity for concentrated study in a discipline chosen to meet the career objectives of the individual student.

Sem. Hrs.

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Science (PSC)</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics, Computer Science (CPS) (132 or 144)</td>
<td>18</td>
</tr>
<tr>
<td>Chemistry (CHM 123-123L, 124-124L)</td>
<td>8</td>
</tr>
<tr>
<td>Geology (GEO 115-115L, 116-116L)</td>
<td>8</td>
</tr>
<tr>
<td>Upper-level physical sciences</td>
<td>26</td>
</tr>
<tr>
<td>Breadth Requirement</td>
<td>36</td>
</tr>
</tbody>
</table>

AUGUST 2009 - UNDERGRADUATE ISSUE

Explore by Department / Program:
- Military Science, ROTC
- Music
- Philosophy
- Physics

Explore by Major / Minor:
- Physical Education Pre K-12 (EDP)
- Physical Science (PSC)
- Physics (PHY)
- Physics-Computer Science (PCS)

Explore by Courses:
- Operations Management (OPS)
- Philosophy (PHL)
- Photography (VAP)
- Physics (PHY)
Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

At least twelve semester hours in physics.

Bachelor of Science with a major in Physics (PHY)

**General Physics Concentration**

PHY 206, 207, 208, 210L, 211L, 301, 303, 333, 390, 408, 430L, 431L 30
PHY electives (300- and 400-level) 7

**Breadth Requirement**

Natural Sciences 8
CHM 123-123L, 124-124L

Mathematics, Computer Science 21
CPS (132 or 144)
MTH 168, 169, 218, 219, 310

Social and Behavioral Sciences 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

**Physics and Electro-optics Concentration**

ECE 443 3
PHY 206, 207, 208, 210L, 211L, 301, 303, 333, 390, 404, 408, 430L, 431L 33
Any two from: EOP 501, 502, 505, 506 (or ECE 573), 513 (or ECE 572), 514 (or ECE 574) 6

**Breadth Requirement**

Natural Sciences 8
CHM 123-123L, 124-124L

Mathematics, Computer Science 21
CPS (132 or 144)
MTH 168, 169, 218, 219, 310

Social Science and Behavioral Science 6
Humanities 9
Philosophy and Religious Studies 12

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 120

Bachelor of Science with a major in 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.

Sem. Hrs.

Computer Science¹
CPS 150, 151, 250, 346, 350, 353
Two additional courses (350-level or above)

Mathematics
MTH 168, 169, 218, 219, 310

Physics²
PHY 206, 207, 208, 210L, 211L, 323, 333
Four additional courses (300- or 400-level)

Breadth Requirement
Social and Behavioral Sciences
Humanities
Philosophy and Religious Studies

Communication Competencies
Introduction to the University: ASI 150

General Education courses/academic electives to total at least

Additional numerical analysis courses are recommended.
²A senior project involving some application of computers in physics is recommended.

Minor in Physics (PHY)

Physics
Select twelve semester hours (300- or 400-level)

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 100</td>
<td>SEMINAR</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Opportunity to become acquainted with the broad spectrum</td>
<td></td>
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<tr>
<td></td>
<td>of modern science through periodic meetings with the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>entire department. Invited speakers, films, student</td>
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</tr>
<tr>
<td></td>
<td>presentations, book reviews, and informal discussions.</td>
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</tr>
<tr>
<td></td>
<td>For all physics, physical science, and physics-computer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>science majors.</td>
<td></td>
</tr>
<tr>
<td>PHY 105</td>
<td>PHYSICAL SCIENCE - ENERGY AND THE ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General introduction to principles of physics including</td>
<td></td>
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<tr>
<td></td>
<td>motion, energy, thermodynamics, electricity and</td>
<td></td>
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<tr>
<td></td>
<td>magnetism, and nuclear physics. Applications of these</td>
<td></td>
</tr>
<tr>
<td></td>
<td>principles to non-renewable and renewable energy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>systems and the climate. Intended for business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>students.</td>
<td></td>
</tr>
<tr>
<td>PHY 108</td>
<td>PHYSICAL SCIENCE OF LIGHT AND COLOR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A treatment of physical science with emphasis on light,</td>
<td></td>
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<tr>
<td></td>
<td>color, and the interaction of light with materials.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For nonscience students.</td>
<td></td>
</tr>
<tr>
<td>PHY 108L</td>
<td>LIGHT AND COLOR LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Laboratory experiences to accompany PHY 108.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite(s): PHY 108.</td>
<td></td>
</tr>
<tr>
<td>PHY 201</td>
<td>GENERAL PHYSICS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Topics from mechanics, thermal and mechanical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>properties of matter, wave</td>
<td></td>
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<tr>
<td></td>
<td>motion and sound, and electricity without the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>formalism of calculus. First</td>
<td></td>
</tr>
<tr>
<td></td>
<td>term, each year.</td>
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</tr>
</tbody>
</table>
PHY 201L  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 206.

PHY 202  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 LABORATORY
Experimental scientific techniques and the use of standard laboratory equipment. One two-hour period per week. Second term, each year.
Prerequisite(s): PHY 201L.

PHY 203  MODERN TECHNICAL PHYSICS
Introduction to selected topics in modern physics without the formalism of calculus. For engineering technology students.
Prerequisite(s): College algebra, trigonometry, and introductory statics and dynamics.

PHY 203L  TECHNICAL PHYSICS LABORATORY
Laboratory experiences to accompany PHY 203.

PHY 206  GENERAL PHYSICS I - MECHANICS
Introductory course in mechanics for students with a strong background in physics. Three lectures, one recitation each week.
Corequisite(s): MTH 148 or 168.

PHY 206H  GENERAL PHYSICS I - MECHANICS (HONORS)
Introductory course in mechanics for students with a strong background in physics. Three lectures, one recitation each week. By invitation only.
Corequisite(s): MTH 148 or 168.

PHY 207  GENERAL PHYSICS II - ELECTRICITY AND MAGNETISM
The basic principles of electricity and magnetism. Three lectures, one recitation each week.
Prerequisite(s): PHY 201 or 206.
Corequisite(s): MTH 149 or 169.

PHY 208  GENERAL PHYSICS III - MECHANICS OF WAVES
Introduction to wave phenomena (including sound, light, and matter waves) leading to basic concepts in modern physics.
Prerequisite(s): (MTH 149; PHY 202) or (MTH 169; PHY 207).

PHY 210L  GENERAL PHYSICS LABORATORY I
Introduction to laboratory methods, handling of data, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week.
Corequisite(s): PHY 206.

PHY 211L  GENERAL PHYSICS LABORATORY II
Laboratory methods, data handling, and analysis of results. Experiments appropriate to the background of students with an interest in mathematical and physical sciences. Two hours laboratory, one hour recitation each week.
Prerequisite(s): PHY 210L.
Corequisite(s): PHY 207.

PHY 220  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 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**

Descriptive survey for students who have had little or no previous exposure to astronomy; material from ancient times to present, including pulsars and quasi-stellar objects.

**PHY 301 THERMAL PHYSICS**

Thermodynamical descriptions of many particle systems obtained from microscopic statistical considerations; laws of thermodynamics, kinetic theory of dilute gases, and Fermi-Dirac and Bose-Einstein statistics.

**Prerequisite(s):** PHY 208 or 232.

**Corequisite(s):** MTH 219.

**PHY 303 INTERMEDIATE MECHANICS I**

The fundamental concepts of mechanics: virtual work, kinematics, special theory of relativity, Lagrange's equation-and central forces, particle dynamics.

**Prerequisite(s):** PHY 208 or 232.

**Corequisite(s):** MTH 219.

**PHY 321 ATOMIC AND NUCLEAR PHYSICS**

Concepts and models of the structure of matter; atoms, ions, electrons and nuclei, radioactivity, interactions of radiation with matter, particle detection, accelerators, nuclear models, nuclear reactions and processes, and fundamental particles.

**Prerequisite(s):** (PHY 208 or 232) or permission of instructor.

**PHY 323 COMPUTATIONAL PHYSICS**

The course will explore how computers are used in physics. Topics will include simulations of physical systems, numerical analysis, and the use of mathematical analysis packages (MATHCAD, for example.) Programming will be done in True BASIC and MATHCAD.

**Prerequisite(s):** MTH 218; (PHY 208 or 232).

**PHY 333 DIGITAL AND ANALOG ELECTRONICS FOR SCIENTISTS**

Basic concepts of digital and analog integrated circuit electronics are developed as a way to understand modern microcomputer based instrumentation. A microcomputer based data collection and analysis system is used to study binary data input and output, analog to digital conversion (ADC) devices, digital to analog conversion (DAC) devices, and other digital integrated circuits and concepts. The analog electronics part of the course begins with a study of discrete analog devices and ends with operational amplifiers and their application. Two hours lecture and two hour laboratories each week.

**Prerequisite(s):** (PHY 202L or 211L) or equivalent.

**PHY 390 INTRODUCTION TO QUANTUM MECHANICS**

Basic postulates of quantum mechanics with applications made to atomic physics.

**Prerequisite(s):** MTH 219; (PHY 208 or 232).

**Corequisite(s):** MTH 302.

**PHY 395 RESEARCH PARTICIPATION I**

Individual projects conducted as part of the physics Undergraduate Research Participation program to encourage involvement of students with faculty researchers. Projects must be arranged in advance with faculty research directors.
PHY 399 SPECIAL PROBLEMS IN (NAMED AREA) 1 - 4
Special topical courses, laboratory, tutorial, or library work in areas of current interest. Students should consult the composite.

PHY 403 INTERMEDIATE MECHANICS II 3
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
The electromagnetic wave theory of light, propagation of waves, reflection, refraction, dispersion, polarization, dichroism, birefringence, superposition of waves, interference, diffraction, Fourier optics.
Prerequisite(s): MTH 219; (PHY 208 or 232).

PHY 408 INTERMEDIATE ELECTRICITY AND MAGNETISM I 3
Electrostatics, Coulomb's law, Gauss's law, potential, dielectric materials, electrostatic energy, solutions to Laplace's and Poisson's equations, Biot-Savart law, Faraday induction law, magnetization, and Maxwell's equations.
Prerequisite(s): MTH 219; (PHY 208 or 232).

PHY 409 INTERMEDIATE ELECTRICITY AND MAGNETISM II 3
Further study of electric and magnetic fields with emphasis on solving problems; Maxwell's equations, propagation of electromagnetic waves, electromagnetic radiation.
Prerequisite(s): PHY 408.

PHY 411 TOPICS IN MODERN PHYSICS 3
Elements of modern optics, solid state and other selected subjects. Consult chairperson for details.
Prerequisite(s): PHY 390 or equivalent.

PHY 420 INTRODUCTION TO SOLID STATE 3
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 430L ADVANCED LABORATORY 2
Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.
Prerequisite(s): PHY 333.
Corequisite(s): An advanced course in Physics.

PHY 431L ADVANCED LABORATORY 2
Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.
Prerequisite(s): PHY 333.
Corequisite(s): An advanced course in Physics.

PHY 432L ADVANCED LABORATORY 2
Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.
Prerequisite(s): PHY 333.
Corequisite(s): An advanced course in Physics.

PHY 433L ADVANCED LABORATORY 2
Experimental investigations based on principles from atomic and nuclear physics, electricity and magnetism, modern and classical optics, mechanics, solid state, cryogenics, x-ray diffraction, surface physics, or electronics. Not all experiments available every semester; consult chairperson for details.

**Prerequisite(s):** PHY 333.

**Corequisite(s):** An advanced course in Physics.

**PHY 440 QUANTUM MECHANICS II**
Study of selected principles in quantum mechanics.

**Prerequisite(s):** PHY 390.

**PHY 450 SENIOR PROJECT**
The senior project is a capstone experience for senior physics majors. It will consist of a research project of the student's choosing and will require both an oral and written report. The nature and scope of the project will be chosen in consultation with the student's advisor. Permission of the department chairperson is required. Senior physics majors only.

**PHY 460 SEMINAR**
Presentation of papers by undergraduate students, faculty, and a guest lecturers on topics of concern to the modern physicist. Reviews of books and films appropriate to the group.

**PHY 477 HONORS THESIS PROJECT**
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

**PHY 478 HONORS THESIS PROJECT**
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

**PHY 495 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 IN NAMED AREA (HONORS)**
Laboratory, tutorial, or library work in one of such selected topics as solid state physics, polymers, atomic and nuclear physics, modern optics, theoretical physics, surface physics, or general physics.

**Prerequisite(s):** Permission of department chairperson.
College of Arts and Sciences

(POL) Political Science (Collapse Description)

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. A minor in political science is 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.

Minors and Area Concentrations for Majors

A student majoring in political science may elect licensure in education (see ED1) or a minor in any related discipline within the College of Arts and Sciences. The student must consult with the department administering the discipline for the particular requirements of a minor. Students majoring in political science may elect to develop a multidisciplinary concentration in an area of interest including prelaw, international affairs, public administration and urban affairs, political journalism or others developed by the student in conjunction with his or her advisor.

Faculty

Jason Pierce, Chairperson
Professors Emeriti: Ahern, Fogel, Karns, Kerns, Lapitan, Nelson
Associate Professors: Bilocerkowycz, Ensalaco, Ghere, Ingram, Inscho, Martorano, Neeley, Pierce
Assistant Professors: Hudson, Pautz
Lecturers: Leonard, Putka, Talbot

Majors/Minors (Collapse All)

Major/Minor Name

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, and non-profit groups in human rights or humanitarian assistance.

Courses taken for the major may also count toward completion of the Liberal Studies Curriculum.
<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI 397</td>
<td>3</td>
</tr>
<tr>
<td>CMM 355</td>
<td>3</td>
</tr>
<tr>
<td>HST 312</td>
<td>3</td>
</tr>
<tr>
<td>PHL 371</td>
<td>3</td>
</tr>
<tr>
<td>POL 305, 333, 334, 406</td>
<td>12</td>
</tr>
<tr>
<td>REL 363</td>
<td>3</td>
</tr>
<tr>
<td>SOC 371</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>CMM 412</td>
<td></td>
</tr>
<tr>
<td>HST 301</td>
<td></td>
</tr>
<tr>
<td>POL 207</td>
<td></td>
</tr>
<tr>
<td>SOC 208</td>
<td></td>
</tr>
<tr>
<td>Select one course from each of three different concentrations:</td>
<td></td>
</tr>
<tr>
<td>ANT 360</td>
<td></td>
</tr>
<tr>
<td>CJS 338</td>
<td></td>
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<tr>
<td>ECO 460</td>
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<tr>
<td>HST 334, 337, 356, 361, 399</td>
<td></td>
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<tr>
<td>PHL 314, 317, 327, 370, 372</td>
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<tr>
<td>POL 300, 319, 331, 450, 452</td>
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<tr>
<td>REL 358, 360, 366</td>
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<tr>
<td>SOC 326, 328, 339, 345, 368, 435</td>
<td></td>
</tr>
<tr>
<td>SPN 380, 480</td>
<td></td>
</tr>
<tr>
<td>Experiential or Research Requirement</td>
<td>3-6</td>
</tr>
<tr>
<td>Select one course from (for a total of 3 semester hours):</td>
<td></td>
</tr>
<tr>
<td>CMM 390</td>
<td></td>
</tr>
<tr>
<td>HST 496</td>
<td></td>
</tr>
<tr>
<td>PHL 492</td>
<td></td>
</tr>
<tr>
<td>POL 321, 465</td>
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<tr>
<td>SOC 409, 498</td>
<td></td>
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<tr>
<td>Or complete an Honors Thesis (for a total of six semester hours):</td>
<td></td>
</tr>
<tr>
<td>CMM 477 &amp; 478</td>
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</tr>
<tr>
<td>HST 477 &amp; 478</td>
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<tr>
<td>REL 477 &amp; 478</td>
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<tr>
<td>SOC 477 &amp; 478</td>
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<tr>
<td>Foreign Language Requirement</td>
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</tr>
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</table>

Liberal Studies Curriculum

Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts Study</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
</tbody>
</table>

Communication Competencies | 0-9 |
Introduction to the University: ASI 150 | 0-1 |
General Education courses/academic electives to total at least | 124 |

¹This 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, or Spanish.

Bachelor of Arts with a major in Political Science (POL)

<table>
<thead>
<tr>
<th>Political Science</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 201, (202 or 214), 207, (319 or 316 or 317)</td>
<td>12</td>
</tr>
<tr>
<td>Select twenty-four additional semester hours (^1,^2)</td>
<td>24</td>
</tr>
</tbody>
</table>

Liberal Studies Curriculum

**Humanities and Fine Arts**

- Philosophy and Religious Studies: 12
- History: 6
- Literature: English or Foreign Language: 3
- Creative and Performing Arts: 3
- Foreign Language and/or Additional Arts and/or Humanities: 3-9

**Social Sciences**: 12

- Mathematics (excludes MTH 102, 204, 205): 3
- Natural Sciences: 11

Communication Competencies: 0-9

Introduction to the University: ASI 150: 0-1

General Education courses/academic electives to total at least 124

\(^1\)Including twenty-one semester hours at the 300- or 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 POL 333 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.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>POL 333, 334</td>
<td>6</td>
</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>PHL 371</td>
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<tr>
<td>REL 363</td>
<td></td>
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<tr>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>ANT 325</td>
<td></td>
</tr>
<tr>
<td>SOC 371</td>
<td></td>
</tr>
<tr>
<td>Select two courses from: (^1,^2)</td>
<td>6</td>
</tr>
<tr>
<td>ANT 325, 360, 368</td>
<td></td>
</tr>
<tr>
<td>CJS 336</td>
<td></td>
</tr>
<tr>
<td>CMM 355</td>
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</tbody>
</table>
Minor in Political Science (POL)

Select four additional courses (300- or 400-level) 12

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 101</td>
<td>GLOBAL POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>POL 201</td>
<td>THE AMERICAN POLITICAL SYSTEM</td>
<td>3</td>
</tr>
<tr>
<td>POL 202</td>
<td>INTRODUCTION TO COMPARATIVE POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>POL 207</td>
<td>POLITICAL ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td>POL 214</td>
<td>INTRODUCTION TO INTERNATIONAL POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>POL 300</td>
<td>POLITICAL ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>POL 301</td>
<td>THE AMERICAN JUDICIAL PROCESS</td>
<td>3</td>
</tr>
<tr>
<td>POL 303</td>
<td>STATE AND LOCAL GOVERNMENT</td>
<td>3</td>
</tr>
<tr>
<td>POL 305</td>
<td>INTRODUCTION TO PUBLIC ADMINISTRATION</td>
<td>3</td>
</tr>
<tr>
<td>POL 306</td>
<td>PUBLIC POLICY ANALYSIS</td>
<td>3</td>
</tr>
</tbody>
</table>
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 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
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 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 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 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 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 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 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 AND POLITICAL LEADERSHIP
Analysis of contemporary leadership issues related to integrity and values in political office-holding, public service, and global governance contexts. 
Prerequisite(s): CMM 201 or (POL 201 or 202 or 214) or permission of instructor.

POL 319 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 COMPARATIVE POLITICS: WESTERN EUROPE
Analysis of governmental institutions and political processes of Western Europe.

POL 321 COMPARATIVE POLITICS: RUSSIA AND THE NEW STATES
Analysis of governmental institutions and political processes of Russia and the New States.

POL 323 COMPARATIVE POLITICS: LATIN AMERICAN
Analysis of governmental institutions and political processes of Latin America.

POL 331 NATIONALISM AND ETHNOPOLITICS
An analysis of the politics of nationalism and ethnicity and their impact on social justice. Diverse case studies (US, Russia, Northern Ireland, Israeli-Palestinian) and institutions (European Community, United Nations) will be explored.

POL 333 POLITICS OF HUMAN RIGHTS
Examines the evolution of international human rights norms and the creation of the institutions for the protection and promotion of human rights, and case material relating to each category of internationally recognized human rights.

POL 334 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 UNITED STATES NATIONAL SECURITY POLICY
Analysis of various political, economic, and military issues and problems relating to U.S. national security.

POL 340 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 214) or permission of instructor.

POL 350 LEGISLATIVE POLITICS
Study of the U.S. Congress, its organization and procedures, and its powers and influence in the political system.

POL 360 URBAN POLITICS AND POLICY
Study of the nature of urban political systems in the U.S. with emphasis on explanation of differences in their policy responses.

POL 365 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
Examination of environmental public policymaking and implementation in the U.S. and in the international arena. Analysis of domestic and international government responses to specific environmental issues.

**POL 404 UNITED STATES-LATIN AMERICAN RELATIONS**
This course examines the foreign relations of the United States with other countries of the Western hemisphere. Political, economic and security issues are examined from both theoretical and historical perspectives. **Prerequisite(s):** (POL 201 or 214) or permission of instructor.

**POL 406 INTERNATIONAL LAW AND ORGANIZATION**
Study of rules governing the community of nations; their nature, sources, and development; the international agencies responsible for their development, interpretation, and administration. **Prerequisite(s):** POL 214 or permission of instructor.

**POL 408 AMERICAN FOREIGN POLICY**
Critical study of the American foreign policy process and evaluation of the sources of American foreign policy. **Prerequisite(s):** (POL 201, 214) or permission of instructor.

**POL 409 RUSSIAN FOREIGN POLICY**
Analysis of the internal and external factors shaping the foreign policies of Russia and the independent republics.

**POL 410 COMPARATIVE FOREIGN POLICY**
Comparative analysis of the foreign policies of major states with emphasis on the process of policy development and on the national and international determinants of policy behaviors. **Prerequisite(s):** (POL 202 or 214) or permission of instructor.

**POL 411 CONSTITUTIONAL LAW**
Analysis of the role of the U.S. Supreme Court in its interpretation of the Constitution. Emphasis on the various methods of judicial interpretation as they affect such provisions as the commerce clause, the taxing and spending powers, due process, the dimensions of presidential and congressional authority, and the doctrine of judicial review. **Prerequisite(s):** POL 301 or permission of instructor.

**POL 412 COMPARATIVE LAW**
Explores how foreign judicial systems protect and promote civil and political rights through different constitutional designs. **Prerequisite(s):** POL 301.

**POL 413 THE POLITICS OF BUREAUCRACY AND REGULATION**
Examination of the nature and meaning of bureaucracy in contemporary American society and the devices for its evaluation and control.

**POL 421 SEMINAR IN POLITICAL SCIENCE**
Seminar on current problems and issues in political science. May be taken more than once when content changes. **Prerequisite(s):** Political Science major; completed POL core courses.

**POL 426 LEADERSHIP IN BUILDING COMMUNITIES**
Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools.

**POL 431 INDEPENDENT STUDY AND RESEARCH**
Individual reading and research on selected topics under faculty direction. Recommended for seniors only. **Prerequisite(s):** Permission of instructor and department chairperson.

**POL 450 CIVIL LIBERTIES**
Analytical examination of civil liberties in the U.S. with emphasis on the
Supreme Court as arbiter in the endless conflict between the demand for
individual liberty and the needs of constitutional authority.
Prerequisite(s): (POL 301 or 411) or permission of instructor.

POL 452 POLITICAL VIOLENCE
Consideration of theoretical approaches to understanding violent change in
political institutions; the continuum between violence and nonviolence;
revolution, revolt, campus dissent, and political assassination.
Prerequisite(s): (POL 202 or 333) or permission of instructor.

POL 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and
completion of an independent, original Honors Thesis project under the
guidance of a faculty research advisor. Restricted to students in the
University Honors Program with permission of the program director and
department chairperson. Students pursuing an interdisciplinary thesis topic
may register for 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 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 IN PUBLIC POLICY
Intensive examination of policy process, outcomes, and impact in an area or
areas of American public policy selected by the instructor; such topics as
transportation, education, welfare, national defense, urban and community
development, civil rights, and science and technology. May be repeated
once when topic changes.

POL 495 INTERNSHIP
Supervised experience in government agencies and programs. Prelaw
students are assigned to law firms and judicial chambers.
Prerequisite(s): Permission of supervising professor.

POL 497 SERVICE LEARNING EXPERIENCE
Supervised community research or service experience that complements a
specific upper division course in Political Science. Repeatable up to three
semester hours. No more than 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.
College of Arts and Sciences

(PLW) Prelaw (Collapse Description)

At the University of Dayton, any student, regardless of major, thinking about attending law school should join the Prelaw Program. The program provides students with the guidance and academic assistance necessary to prepare them for success in the study of law. Because law schools seek students with a broad, liberal arts education and discourage students from having a vocationally-oriented “prelaw” major, prelaw students at the University of Dayton select undergraduate majors based on their interests and aptitudes. They select these majors either as incoming first-year students or, with the aid of their prelaw advisors, later in their college career. However, in order to receive adequate counseling, all students thinking about postgraduate work in law should declare their prelaw intentions to the prelaw office as early as possible. This enables them to take full advantage of all the counseling, advising, and preparatory services provided by the Prelaw Program.

In addition to courses in their majors, prelaw students select courses that help develop analytical skills and academic abilities necessary for success in law school and careers in law. While no prelaw course of study is perfect for all students, particular courses taken in conjunction with a traditional academic major provide the prelaw student with an excellent academic preparation for legal study. Students take courses which emphasize the following:

1. Skill in the analysis and synthesis of ideas. Courses in such disciplines as history, literature, mathematics, philosophy, and the sciences develop critical, analytical thinking.
2. Proficiency in communicating ideas effectively and clearly. Courses in such areas as composition theory and process, 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

R. Alan Kimbrough (English), Director
Becker (Sociology), Cahoon (Psychology), Flockerzie (History), Frasca (Economics, Business Administration), Huff (College of Arts and Sciences), Ingram (Criminal Justice, Political Science), Payne (Philosophy) H. Pestello (Sociology), Pierce (Political Science), Robinson (Biology), Russo (School of Education), Yoder (Communication)

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLW 301</td>
<td>MOCK TRIAL I</td>
<td>1</td>
</tr>
</tbody>
</table>
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
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.
College of Arts and Sciences

Premedical / Predentistry (Collapse Description)

The Bachelor of Science with a major in premedicine (MED) or predentistry (DEN) is an interdisciplinary curriculum of study. It is distinctively designed to provide a science-based, diverse education as a preparation for admission to any of the allied health care professional schools including medical, dental, veterinary, and chiropractic. Courses in biology, chemistry, mathematics, and physics comprise the science core of the major. A substantial complement of humanities and social sciences courses are also required. Within this framework the curriculum is flexible and can be tailored to suit personal interests. During the first two years, students enroll in courses appropriate for entry into professional schools while they also fulfill basic University requirements.

Admission to professional schools depends upon many factors in addition to the curriculum or major. Academic standing, performance on standardized examinations, practical experience relevant to the profession of interest, and adherence to application procedures are all important. The Premedical Programs Office addresses these factors through a comprehensive approach to pre-health care education.

Along with the administration of the DEN and MED majors, the Premedical Programs office acts as the focal point for all matters related to admission to any allied health care professional school. It is an information clearing house, functions as a liaison with professional schools, and coordinates the application process. Students in any major planning to apply to professional schools are urged to maintain a close relationship with this office.

The University automatically enrolls entering premedical or predental majors into special orientation classes, and identifies them to the Premedical Programs office. Members of the Premedical/Predental Advisory Committee advise these students. However, advising services are available to all pre-professional students regardless of their major. Students in other majors may elect to have committee members serve as their secondary advisors; such students should identify themselves to the Premedical Programs office.

In addition to providing counseling, Premedical Programs offers a seminar series, joint programs with medical schools, grants 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

Robert J. Kaarns, (Biology) Director
Abuelida (Mathematics), Ahoujja (Physics), Church (Chemistry), Craver (Physics), Erdel (Physics), Friese (Biology), Johnson (Chemistry), Krane (Biolog), Nielsen (Biology), Smith (Physics), S. Wright (Biology)

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Science in Predentistry (DEN)

<table>
<thead>
<tr>
<th>Major/Minor</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predentistry</td>
<td>45-50</td>
</tr>
</tbody>
</table>

Required Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 151-151L, 152-152L</td>
<td>8</td>
</tr>
<tr>
<td>MTH ((148 &amp; 149) or (168 &amp; 169))&lt;sup&gt;1&lt;/sup&gt;</td>
<td>6-8</td>
</tr>
</tbody>
</table>
University of Dayton - the Bulletin - Premedicine / Predentistry

PHY ((201^2 & 202) or (206 & 207 & 208)), 201L^2, 202L
----- (CPS 111 or MTH 207 or MTH 367)

Science electives^3
Choose five science electives including two with accompanying laboratories from the following courses.
BIO 309-309L, 312-312L, 403-403L, 411-411L, 415, 427, 439,
440-440L, 442-442L, 445, 460, 462, 466, 470, 480-480L
CHM 302, 420, 427, 451, 452

General electives^4,5

Breadth Requirement
Social and Behavioral Sciences 12
History 6
Humanities^6 3
Philosophy and Religious Studies^7 12
Arts Study 3

Communication Competencies
ENG elective^8

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

1Students with a weak background should take MTH 137 and 138, followed by MTH 149. Well qualified students are advised to take MTH 168-169.
2Well qualified students are strongly advised to take PHY 206-207-208 lecture sequence with PHY 201L and 202L.
3The elective courses must be directly related to the primary field of interest.
4Only general elective courses can be taken under Grading Option Two.
5Courses in graphic design, studio art, or performing arts are recommended.
6A modern foreign language is strongly recommended.
7One PHL or REL elective must be an ethics course. Select PHL 312, 315; REL 265, 367.
8Select ENG elective from among ENG 203, 204, 205, 272, 316, or any 300-level General Education ENG elective. ENG 376, when content is Medical Writing, is recommended.

Bachelor of Science in Premedicine (MED)

Premedicine

Required Science Courses
BIO 151-151L, 152-152L 8
MTH ((148 & 149) or (168 & 169))^1 6-8
PHY ((201^2 & 202) or (206 & 207 & 208)), 201L^2, 202L 8-11
----- (CPS 111 or MTH 207 or MTH 367) 3

Science electives^3
Choose five science electives including two with accompanying laboratories from the following courses.
BIO 309-309L, 312-312L, 403-403L, 411-411L, 415, 427, 439,
440-440L, 442-442L, 445, 460, 462, 466, 470, 480-480L
CHM 302, 420, 427, 451, 452

General electives^4 12-18
Breadth Requirement

Social and Behavioral Sciences 12
History 6
Humanities 3
Philosophy and Religious Studies 12
Arts Study 3

Communication Competencies

ENG elective 7

Introduction to the University: ASI 150 0-1

General Education courses/academic electives to total at least 120

1 Students with a weak background should take MTH 137 and 138, followed by MTH 149. Well qualified students are advised to take MTH 168-169.
2 Well qualified students are strongly advised to take PHY 206-207-208 lecture sequence with PHY 201L and 202L.
3 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 A modern foreign language is strongly recommended.
6 One PHL or REL elective must be an ethics course. Select from among PHL 312, 315; REL 360, 367.
7 Select ENG elective from among ENG 203, 204, 205, 272, 316, or any 300-level General Education ENG elective. ENG 376, when content is Medical Writing, is recommended.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MED 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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. <strong>Prerequisite(s):</strong> Approval of University Honors Program.</td>
<td></td>
</tr>
<tr>
<td>MED 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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. <strong>Prerequisite(s):</strong> Approved 477; approval of University Honors Program.</td>
<td></td>
</tr>
</tbody>
</table>
Psychology is the scientific study of behavior, and as such is a diverse field that touches all aspects of human endeavor.

The objectives of the Department of Psychology are to provide students with learning experiences in and out of the classroom which will increase their critical thinking skills, facilitate their acquisition of the body of knowledge inherent in the study of human behavior, equip them with its research methodology, and prepare them for employment or graduate school.

The Department of Psychology offers both the Bachelor of Arts and the Bachelor of Science degrees. Each student, in consultation with an advisor, selects a program leading to either a Bachelor of Arts or a Bachelor of Science with appropriate elective credits according to individual interests and goals. The availability of both degrees allows the student to plan a double major or a major in psychology with a strong concentration of study in a related or complementary discipline. It also allows for easy transfer into psychology from prior majors. The department encourages students who are interested in preparation for graduate school or a career in a particular area of psychology to consult the Psychology Undergraduate Student Handbook, available on the World Wide Web, for a listing of courses that are recommended for preparation in that area. Some examples of such areas include clinical psychology, developmental psychology, human factors/ergonomics, and social psychology.

Each psychology major must complete PSY 101, 216, and 217 early in his or her academic career. The remaining requirements are stated in the outlines below. Exceptions to these requirements must be approved by the chairperson.

Psychology majors are required to attain grades of C- or better in the following courses: PSY 101, 216, 217, and any two courses from each of the two core groupings (PSY 321, 322, 323, 422) (PSY 341, 351, 361, 363). If a C- or better is not attained, courses will have to be retaken if they are used to satisfy the psychology major.

A minor in psychology consists of eighteen semester hours.

Faculty
David W. Biers, Chairperson
Professors Emeriti: Allik, Butter, DaPolito, Korta, Kuntz, Moroney
Professors: Eggemeier, Potzella
Associate Professors: Biers, Bower, Elvers, Katsuyama, Reeb, Roecker-Pelps, Zois
Assistant Professors: Bauer, Crutcher, Davis, Dixon, Kirschman, Montoya
Visiting Assistant Professor: Berry
Lecturer: Layman-Guadalupe

Majors/Minors (Collapse All)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts with a major in Psychology (PSY)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101, 216, 217</td>
</tr>
<tr>
<td>Select two courses from:</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
</tr>
<tr>
<td>Select two courses from:</td>
</tr>
<tr>
<td>PSY 341, 351, 361, 363</td>
</tr>
<tr>
<td>Sem. Hrs.</td>
</tr>
<tr>
<td>33-45</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>
Psychology electives\(^2\) \hspace{1cm} 12-24

Liberal Studies Curriculum

Humanities and Fine Arts

- Philosophy and Religious Studies \hspace{1cm} 12
- History \hspace{1cm} 6
- Literature: English or foreign language \hspace{1cm} 3
- Creative and Performing Arts \hspace{1cm} 3
- Foreign Language and/or Arts and/or Humanities \hspace{1cm} 3-9

Social Sciences (excludes PSY courses) \hspace{1cm} 12

- Mathematics \hspace{1cm} 3
  - MTH 114, 116, 128, 129, 137, 138, 148, 149, 168, 169
- Natural Sciences \hspace{1cm} 11

Communication Competencies \hspace{1cm} 0-9

Introduction to the University: ASI 150 \hspace{1cm} 0-1

General Education courses/academic electives to total at least \hspace{1cm} 124

\(^1\)May substitute MTH 207 for PSY 216, but the MTH course does not count toward the thirty-four credit hours required in PSY for the major.

\(^2\)No more than a total of six hours of PSY 352, 477, 478, 490, 493, 494, and/or 497 may count toward the thirty-four credit hours required in PSY for the major.

Bachelor of Science with a major in Psychology (PSS)

<table>
<thead>
<tr>
<th>Psychology</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101, 216(^1), 217</td>
<td>9</td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
<td></td>
</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
</tr>
<tr>
<td>PSY 341, 351, 361, 363</td>
<td></td>
</tr>
<tr>
<td>PSY electives(^2)</td>
<td>12-23</td>
</tr>
</tbody>
</table>

Breadth Requirement

| Natural Sciences\(^3\) | 24 |
| Mathematics, Computer Science | 6 |
| MTH 148\(^4\), 149\(^4\) | |
| Humanities | 9 |
| Social and Behavioral Sciences | 6 |
| Philosophy and Religious Studies | 12 |

Communication Competencies \hspace{1cm} 0-9

Introduction to the University: ASI 150 \hspace{1cm} 0-1

General Education courses/academic electives to total at least \hspace{1cm} 120

\(^1\)May substitute MTH 207 for PSY 216, but the MTH course does not count toward the thirty-four credit hours required in PSY for the major.

\(^2\)No more than a total of six hours of PSY 352, 477, 478, 490, 493, 494, and/or 497 may count toward the thirty-four credit hours required in PSY for the major.

\(^3\)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.

\(^4\)May substitute MTH 116, 128, 129, 137, 138, 168, or 169 for MTH 148 or 149.

Minor in Psychology (PSY)
Psychology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>INTRODUCTORY PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSY 321, 322, 323, 422</td>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td>PSY 341, 351, 361, 363</td>
<td>Select one course from:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select nine additional semester hours (300- or 400-level)</td>
<td>9</td>
</tr>
</tbody>
</table>

1 Only three semester hours of PSY 352, 490, 493, 494, and/or 497 may count toward the minor.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>INTRODUCTORY PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>ELEMENTARY STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217</td>
<td>EXPERIMENTAL PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSY 251</td>
<td>HUMAN GROWTH AND DEVELOPMENT</td>
<td>3</td>
</tr>
<tr>
<td>PSY 321</td>
<td>COGNITIVE PROCESSES</td>
<td>3</td>
</tr>
<tr>
<td>PSY 321L</td>
<td>COGNITIVE PROCESSES LABORATORY</td>
<td>1</td>
</tr>
<tr>
<td>PSY 322</td>
<td>LEARNING</td>
<td>3</td>
</tr>
<tr>
<td>PSY 323</td>
<td>PSYCHOLOGY OF PERCEPTION</td>
<td>3</td>
</tr>
<tr>
<td>PSY 333</td>
<td>PSYCHOLOGICAL TESTS AND MEASUREMENTS</td>
<td>3</td>
</tr>
</tbody>
</table>
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, 216) or equivalent.

PSY 334  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
Survey of major theoretical and experimental work in the field; attitudes, conformity, emotions, group dynamics.

PSY 344  INTERPERSONAL RELATIONS
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
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  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  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  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, 351) or permission of instructor.

PSY 361  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
Patterns of disordered behavior; social, psychological, and physiological factors; theoretical explanations of abnormal behavior.

Prerequisite(s): PSY 101.

PSY 364  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
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
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 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
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 PSYCHOLOGY
Neurophysiological analysis of attention, sensation, perception, emotion, motivation, and learning. Electrophysiological methods are discussed. 
Prerequisite(s): PSY 101.

PSY 431 INTERVIEWING AND COUNSELING
Integrated approach to the theory, techniques, skills, and values of interviewing and counseling. Practice through written assignments, self study, classroom exercises, and role-playing. 
Prerequisite(s): PSY 101.

PSY 435 HUMAN FACTORS
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
Survey of topics related to the psychology of women, such as gender identity and roles, theories of female development, relationships, achievement, language, health issues, spirituality, sexuality, and violence. 
Prerequisite(s): PSY 101.

PSY 444 ENVIRONMENTAL PSYCHOLOGY
Study of the effects of the physical and social environment on human behaviors, attitudes, and affective responses. 
Prerequisite(s): (PSY 101, 341) or permission of instructor.

PSY 445 TECHNOLOGY, ENVIRONMENT, AND BEHAVIOR
Examines the cultural bases for the individual and societal choices which humans make about their use of technology. Technology is broadly defined to include human-machine systems.

PSY 450 PSYCHOLOGY FOR MINISTRY
Human development and adjustment, interpersonal communication, and the psychology of religion. 
Prerequisite(s): Acceptance into the Lay Ministry Program or permission of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 451</td>
<td>PSYCHOLOGY OF RELIGION</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 452</td>
<td>COGNITIVE DEVELOPMENT IN CHILDREN</td>
<td>3</td>
<td>Major approaches to the study of cognitive development; attentional and mediational development in children's learning, memory, and problem solving; language development and Piaget's theory. Prerequisite(s): (PSY 101, 351) or permission of instructor.</td>
</tr>
<tr>
<td>PSY 457</td>
<td>TELEVISION AND ITS EFFECTS ON CHILDREN</td>
<td>3</td>
<td>Readings in psychological research on the broad effects of television on children. Emphasis on analyzing and evaluating the research. Prerequisite(s): PSY 101.</td>
</tr>
<tr>
<td>PSY 461</td>
<td>CURRENT IMPLICATIONS OF DRUG DEPENDENCY</td>
<td>3</td>
<td>Survey of effects, symptoms, treatment, causalties, and myths associated with drug use and abuse. Emphasis on existing treatment methods and psychological implications of drug dependency. Prerequisite(s): PSY 101.</td>
</tr>
<tr>
<td>PSY 462</td>
<td>HUMAN SEXUALITY</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 471</td>
<td>HISTORY OF PSYCHOLOGY</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 477</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
<td>First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
</tr>
<tr>
<td>PSY 478</td>
<td>HONORS THESIS PROJECT</td>
<td>3</td>
<td>Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.</td>
</tr>
<tr>
<td>PSY 490</td>
<td>INTERNSHIP IN PSYCHOLOGY</td>
<td>1 - 6</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 493</td>
<td>INDEPENDENT STUDY</td>
<td>1 - 6</td>
<td>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.</td>
</tr>
</tbody>
</table>
PSY 494  READINGS IN PSYCHOLOGY  1-6
Directed reading in a specific area of interest, under faculty supervision.
Topic and criteria for evaluation to be specified prior to registration. May be repeated up to six semester hours.
Prerequisite(s): Permission of instructor.

PSY 495  SPECIAL TOPICS IN PSYCHOLOGY  1-3
Topics of special interest to faculty and students; intensive critical evaluation of appropriate literature.
Prerequisite(s): Permission of instructor.

PSY 497  SERVICE LEARNING EXPERIENCE  1
Supervised community research or service experience that complements a specific upper division course in Psychology. Repeatable up to three semester hours.
Corequisite(s): A 300-400 level Psychology course.
College of Arts and Sciences

(REL) Religious Studies

The Department of Religious Studies sees itself as a community of scholars serving the University community and the local community by teaching, research, criticism, and action. The main concern of the department is an understanding and elucidation of the Judaeo-Christian religious experience as it is exemplified in the Roman Catholic tradition. This implies not only a deep investigation of the Roman Catholic position but also a dialogue with other Christian denominations and with other world religions.

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, systematic, church history, ethics, etc., follow the "Graduate School Preparation" track. Students preparing for graduate study of religions other than Christianity and/or interested in world religions follow the "World Religions" track. Students wishing to study religion as a way of broadening their horizons or who are interested in religious studies as an undergraduate major follow the "General" track. All religious studies majors must show basic practical communicative proficiency in one foreign language.

A minor in religious studies consists of eighteen semester hours.

Faculty

Sandra Yocum, Chairperson

Professors Emeriti: Anderson, Buby, Burns, Friedland, Heter, L'Heureux, Thimmes

Professors: Barnes, Branick, Doyle, Inglis (Philosophy), Levering, Miller, Portier, Roberts, Zukowski

Associate Professors: Johnson, Kallenberg, Martin, Trollinger (History), Yocum

Assistant Professors: Bennett, Bunia, Johnston, Junior, Kozar, McGrath, Moore, Orji, Smith

Majors/Minors

Major/Minor Name

Bachelor of Arts with a major in Religious Studies (REL)

Religious Studies

Sem. Hrs.

REL (103 or 198) 3

At least six semester hours (400-level, includes REL 490) 3

Tracks

Ministry

30

REL 315, (323 or 324), 360, 437, 440, 443, 485

Select one course in Old Testament; one course in world religions; one course in religion and culture 21

9

Catholic Schools

30

REL (323 or 324), (327 or 328 or 329), 360, (383 or 487) 12

Select one course in Old Testament; one course in New Testament; two courses in systematic theology; one course in world religions; one course in religion and culture 18
Graduate School Preparation 30
REL 323, 324, 437, (440 or 443) 12
Select one course in Old Testament; one course in New Testament; one course in ethics; one course in world religions; one course in religion and culture; one additional course in systematic theology 18

World Religions 30
REL (323 or 324) 3
Select one course in Old Testament; one course in New Testament; one course in ethics; one course in systematic theology; one course in religion and culture 15
REL elective 3

General 30
Select one course in Old Testament; one course in New Testament; one course in world religions; one course in church history; one course in systematic theology; one course in ethics; one course in religion and culture 21
Religious Studies electives 9

Liberal Studies Curriculum
Humanities and Fine Arts
Philosophy 9
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities\(^2\) 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

\(^1\) Or equivalent course.
\(^2\) Basic proficiency in a foreign language may require additional elective hours in language/humanities/arts. Students who demonstrate basic practical communicative proficiency in a foreign language without taking college courses in language must complete an additional three semester hours of elective courses from a foreign language and/or arts and/or humanities.

Minor in Religious Studies (REL)

<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Select eighteen semester hours(^1)</td>
<td>18</td>
</tr>
</tbody>
</table>

\(^1\) At least three semester hours are to be at the 400-level.

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.

**Religious Studies - Catechesis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 281, 282, 283, 284</td>
<td>Forum for Young Catechetical Leaders</td>
<td>4</td>
</tr>
<tr>
<td>REL 356, 383, 443, 446, 488</td>
<td>Select one Liturgy course from:</td>
<td>3</td>
</tr>
<tr>
<td>REL 327</td>
<td>Select the following Catholicism course or equivalent:</td>
<td>3</td>
</tr>
<tr>
<td>REL 310, 311, 315, 318</td>
<td>Select one Scripture course from:</td>
<td>3</td>
</tr>
<tr>
<td>REL 360, 363, 364</td>
<td>Select one Morality or Ethics course from:</td>
<td>3</td>
</tr>
<tr>
<td>REL 323, 324, 440</td>
<td>Select one Ecclesiology or Church History course from:</td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
<td>3</td>
</tr>
<tr>
<td>REL 198</td>
<td>RELIGIOUS STUDIES SCHOLARS' SEMINAR</td>
<td>3</td>
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<tr>
<td>REL 210</td>
<td>INTRODUCTION TO SCRIPTURE</td>
<td>1</td>
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<tr>
<td>REL 211</td>
<td>INTRODUCTION TO OLD TESTAMENT</td>
<td>1</td>
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<tr>
<td>REL 212</td>
<td>INTRODUCTION TO NEW TESTAMENT</td>
<td>1</td>
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<tr>
<td>REL 220</td>
<td>MARIANIST STUDIES: FOUNDERS OF THE MARIANIST FAMILY</td>
<td>1</td>
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<tr>
<td>REL 221</td>
<td>MARIANIST STUDIES: COMMUNITY</td>
<td>1</td>
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<tr>
<td>REL 222</td>
<td>MARIANIST STUDIES: SPIRITUALITY</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

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.

An introductory overview of Christian scripture that is foundational for Old and New Testament online courses.

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.

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.

Historical context and life of Father William Joseph Chaminade and other Marianist founders, especially Adele de Batz de Trenquelleon and Marie Therese de Lamourou.

Exploration of the key theological principles for understanding the meaning and formation of community within the Marianist spirit.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 223</td>
<td>MARIANIST STUDIES-PRAYER</td>
<td>An exploration of Father William Joseph Chaminade's methods and practices of prayer with insights for individual and group prayer.</td>
</tr>
<tr>
<td>REL 224</td>
<td>MARIANIST STUDIES-SOCIAL JUSTICE</td>
<td>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 21st century.</td>
</tr>
<tr>
<td>REL 225</td>
<td>MARIANIST STUDIES-LEADERSHIP</td>
<td>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.</td>
</tr>
<tr>
<td>REL 260A</td>
<td>CATHOLIC SOCIAL TEACHING I</td>
<td>The first of two courses that provide background on Catholic social teaching as articulated in the Catechism of the Catholic Church and Episcopal documents.</td>
</tr>
</tbody>
</table>
| REL 260B   | CATHOLIC SOCIAL TEACHING II                      | The second of two courses that provide background on Catholic social teaching as articulated in the Catechism of the Catholic Church and Episcopal documents.  
**Prerequisite(s):** REL 260A. |
| REL 263    | 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. |
| REL 264    | 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. |
| REL 265    | PARISH AND SOCIAL ACTION                         | Exploration of the roots of the parish's social mission in Scripture and Catholic social teachings.                                                                                                          
**Prerequisite(s):** REL 260B, 263. |
| REL 281    | FORUM FOR CATECHETICAL LEADERS I                 | Study of key themes of The National Directory for Catechesis regarding "The Tasks of Catechesis and Faith Formation". Themes include (a) Introduction to the Catechetical Ministry of the Church, (b) The Vocation of the Catechist, (c) Faith Formation, and (d) Fundamentals for Designing Catechetical Plans.  
**Prerequisite(s):** ASI 111 or REL 103. |
| REL 282    | FORUM FOR CATECHETICAL LEADERS II                | 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 283    | FORUM FOR CATECHETICAL LEADERS III               | 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 284 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
Study of the world's oldest living religion. Examines the historical development of major Hindu teachings, texts, practices and paths from ancient times to present, including forms of Hinduism taking root in the West today. 
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 305 EASTERN ORTHODOXY
Exploration of the history and theology of the Eastern Orthodox Church, from the Apostles to Byzantium to Russia and the United States. 
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 306 BUDDHISM
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, 112 or equivalent) or (REL 103 or 198).

REL 307 JUDAISM
Basic introduction to Judaism: its history, its faith, its worship. 
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 308 ISLAM
Exploration of the Islamic religious traditions: the life of Islam's founder, the development of its teaching and ritual, its spread from North Africa into Europe, Asia, Oceania, its influence on culture and its contemporary resurgence. 
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 309 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 198).

REL 310 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, 112 or equivalent) or (REL 103 or 198).

REL 311 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, 112 or equivalent) or (REL 103 or 198).

REL 312 THE PSALMS AND THE 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, 112 or equivalent) or (REL 103 or 198).

REL 315 THE GOSPELS
With the Gospel of Mark as a point of departure, comparison of the Markan, Matthean, and Lukas narratives for an understanding of the various conceptions of Jesus found in these Gospels. The course includes historical-critical study of the Gospel to John, its text, literary techniques, structure and theology.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 316 NEW TESTAMENT THEOLOGIES**

A survey of New Testament writings with a focus on the religious ideas specific to each; special attention to authors’ christology, eschatology, and soteriology; exploration of relevance of the New Testament message to Christian faith today.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 318 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, 112 or equivalent) or (REL 103 or 198).

**REL 319 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, 112 or equivalent) or (REL 103 or 198).

**REL 323 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, 112 or equivalent) or (REL 103 or 198).

**REL 324 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, ecumenism, and Vatican II.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 326 PROTESTANT CHRISTIANITY**

Survey of the development of Protestant thought from the Reformation.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 327 U.S. RELIGIOUS EXPERIENCE**

A study of a variety of religious traditions in their engagement with and influence within the U.S. social and cultural context including the effects of pluralism, religious liberty, secularization, and consumer capitalism.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 328 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, 112 or equivalent) or (REL 103 or 198).

**REL 329 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, 112 or equivalent) or (REL 103 or 198).

**REL 344 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, 112 or equivalent) or (REL 103 or 198).
REL 356 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, 112 or equivalent) or (REL 103 or 198).

REL 358 LIBERATION THEOLOGY
A historical-critical analysis and study of the theology of liberation and its specific expression among theologians of the Third World, particularly Latin America.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 360 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, 112 or equivalent) or (REL 103 or 198).

REL 362 CHRISTIAN FAMILY VALUES AND TELEVISION
Comparative study of the criteria and rationale for family life in various Christian pronouncements with present values and practices in society as reflected in and promoted by current television programming.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 363 FAITH AND JUSTICE
This course explores the history, development, and basic principles of Catholic social teaching as well as other approaches to faith and justice. Issues of economic justice will receive special emphasis. In addition to church documents, the life and work of religious thinkers and activists will be examined.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 364 CURRENT MORAL ISSUES
An examination of one or more issues (individual and/or social) in contemporary reflection on Christian moral life. May be repeated when topic changes.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 365 CHRISTIAN ETHICS AND THE ENVIRONMENT
A Christian ethic of relatedness and responsibility. Explores various approaches and related values found in society; elements of ethical judgments; and specific ethical issues resulting from ecofeminist, technological, and ecological awareness.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 366 THE HOLOCAUST: THEOLOGICAL AND RELIGIOUS RESPONSES
Examination of the religious and theological literature of the Holocaust, focusing especially on Jewish and Christian responses.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 367 CHRISTIAN ETHICS AND HEALTH CARE ISSUES
Study of, and reflection upon, the principles of Christian ethics as these relate to the health care professions.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 368 CHRISTIAN ETHICS AND THE BUSINESS WORLD
Study of, and reflection upon, the principles of Christian ethics as these relate to the business world.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 369 CHRISTIAN ETHICS AND ENGINEERING
Study in applied Christian ethics addressing the moral issues facing engineers. How to make a moral decision, engineering as a profession, codes of ethics, safety, environmental issues, confidentiality, employee rights, whistleblowing, consulting, conflicts, and career choices.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).
REL 372 RELIGION AND FILM
Study of issues common to narrative films and religious thought; the power of various film techniques, dominant models in religious and film reflection, the similar roles imagination plays in film and religious thought.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 373 RELIGION AND LITERATURE
Joint study of literature and religion, seeking the sacred in the secular, discussing the doctrines of humans and of God in major modern writings, especially those of current collegiate interest.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 374 RELIGION AND THE ARTS
Investigation of the religious interpretation of various art forms and the process by which the aesthetic experience assists in theological perception and construction.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 375 RELIGION AND SCIENCE
Surveys of the ways science has affected religion on specific doctrines, methods of knowing what is true, and general world views; study of religious response to these.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 376 THEOLOGY AND THE SOCIAL SCIENCES
Exploration of developments in Christian theology that have paralleled the rise of the human sciences, in particular of concepts of God, humanity, Church, sacraments, sin, and salvation in the light of history, anthropology, psychology, and sociology.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 377 THE INNER JOURNEY IN MYTH, BIBLE, AND LITERATURE
Study of stories of heroic figures in the Bible and in other literature as patterns of personal and spiritual development. Throughout, efforts to relate the material to the needs of contemporary persons.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 383 PHILOSOPHY OF RELIGIOUS EDUCATION
An attempt to construct a philosophy of religious education, various contemporary theoretical models, dimensions of teaching religion in a pluralistic society, the polarization generated.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 399 READINGS IN RELIGIOUS STUDIES
Directed readings in a specific area of interest under the supervision of a staff member. May be taken more than once. By permission only.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 425 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
An examination of Modern Catholicism based on a close study of the context, process, decisions, implementation, and challenges of Vatican II in the Roman Catholic Church.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 437 SIGNIFICANCE OF JESUS
Emphasis on the identity of Jesus and on the significance that his ministry, death, and resurrection have for the salvation of humankind.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).
REL 440  THE CHURCH
A biblical and theological study of the meaning of the Church which explores
the relationship between Christ and the Church, the various models for
understanding the Church, and the mission of the Church.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 441  THEOLOGY OF MARY
Study of the place of the Mother of God in the great truths of faith in the light
of chapter eight of the Constitution on the Church.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 442  GOD AND ATHEISM
Study of some recent contributions made by theology, philosophy,
psychology, and the humanities to the current discussion of God's existence,
nature, and relationship to humanity.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 444  GODE AND ATHEISM
Study of some recent contributions made by theology, philosophy,
psychology, and the humanities to the current discussion of God's existence,
nature, and relationship to humanity.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 445  THE SACRAMENTS
A study of the meaning of sacramentality. The sacraments in the context of
Christ as the sacrament of the human encounter with God and in the context
of the Church as the sacrament of Christ.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 446  GOD IN CHRISTIAN TRADITION
A review of theologies of God in Christian tradition, from biblical through
contemporary sources, especially as these theologies have affected overall
Catholic thought and spirituality.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198); PHL 103.

REL 447  CHRISTIAN LITURGY
Study of the basic principles of liturgy, the development of some of the basic
forms of liturgy, and applications of the principles within current rites.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 448  SELECTED CATHOLIC DOCTRINES
Detailed study of several important current theological questions primarily
from a Catholic systematic and historical perspective.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 449  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 470  WOMEN AND RELIGION
Examination of the impact of the women's movement on Judaism,
Christianity, and other major world religions. Survey of traditional religious
attitudes toward women. Relevance of feminist approaches to scripture,
ethics, spirituality, and ministry in understanding contemporary global issues.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 471  ECOLOGY AND RELIGION
Examination of the relationship between religion and ecology; bridges the
contributions of traditional theological inquiry and modern scientific insights
and offers an enlarged vision of ecological concerns.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 472  WOMEN AND THE GLOBAL CHURCH
An exploration of the intersection between faith communities, traditional and
non-traditional, and particular cultures in the lives of contemporary women.
Prerequisite(s): (ASI 111, 112 or equivalent) or (REL 103 or 198).

REL 473  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 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**

Supervised in-service experience in an area of religious education chosen by the student. By permission only.  
**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 485 LAY MINISTRY**

A critical examination of lay ministry and its theological basis, in light of Vatican II and recent trends in the world and Church. Special topics: family ministry, ministry in the marketplace, leadership, evangelization, catechesis, women, social justice.  
**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 487 RELIGIOUS EDUCATION - THEORY AND PRACTICE**

Study of theory and practice of religious education for those who will be teaching religion in the school and parish. Various models and methods. Emphasis on process and religious education as developmental.  
**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 488 SPIRITUALITY AND RELIGIOUS EDUCATION**

Exploration of impact of liturgy and spirituality on contemporary models of religious education; study of interrelationship between faith experience and religious content; basic principles for developing practical programs.  
**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).

**REL 490 CAPSTONE SEMINAR**

Study of a particular topic in religion or theology that draws upon a variety of resources in the fields. This course provides an integrative academic experience. Topic varies from semester to semester. Required of all majors, open to minors. May be repeated.  
**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198); junior or senior standing.

**REL 492 SPECIAL TOPICS**

Concentrated study of issues and subjects pertinent to religion. May be repeated when topic changes.

**Prerequisite(s):** (ASI 111, 112 or equivalent) or (REL 103 or 198).
College of Arts and Sciences

(SOC) Sociology, Anthropology and Social Work  (Collapse Description)

Sociology is the scientific study of society. The unique insight of sociology is that people are who they are largely because of their social experiences and interactions with others. "The sociological imagination" is the ability to understand the relationship between the individual experience and the broader social context. In addition to studying various aspects of social behavior, sociology studies the nature and causes of social problems such as crime, marital instability, poverty, and racism. The challenge facing sociologists is to apply their knowledge in ever more constructive ways for the improvement of society.

Students intending to major or minor in sociology should consult with the department chairperson to plan their programs of courses. Majors may concentrate their studies in the fields of human relations or community relations. The 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.

A minor in sociology consists of fifteen semester hours.

Faculty

H. Frances Pestello, Chairperson
Professors: Curran, Davis-Berman, Donnelly, L. Majka, T. Majka, Miller, Pestello, Renzetti
Associate Professors: Becker, Jipson, Lening
Assistant Professors: Cassiman, Cheney, Forbis, Picca
Lecturers: Dasgupta, Kim

Majors/Minors  (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Sociology (SOC)

Sem. Hrs.

Sociology

SOC (101 or 204 or 398), 208, 303, 308, 308L, 351, 409 19

SOC electives 1 18

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12

History 6

Literature: English or Foreign Language 3

Creative and Performing Arts 3

Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences (excludes SOC courses) 12

Mathematics (excludes MTH 102, 204, 205) 3

Natural Sciences 11

Communication Competencies

0-9

Introduction to the University: ASI 150 0-1
General Education courses/academic electives to total at least 124

1 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.

Sem. Hrs.

Anthropology

ANT 150

Select four additional courses (300- or 400-level)

Sem. Hrs.

12

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.

Sem. Hrs.

Social Work1

Select fifteen semester hours2

Sem. Hrs.

15

1 No more than six semester hours of field experience credit can be accepted toward the minor.

2 At least twelve semester hours at the 300- or 400-level.

Minor in Sociology (SOC)

Sociology

Select fifteen semester hours1

Sem. Hrs.

15

1 At least twelve semester hours at the 300- or 400-level.

Courses (Collapse All Courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ANT 150</td>
<td>CULTURAL ANTHROPOLOGY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ANT 300</td>
<td>EVOLUTION OF PEOPLE AND CULTURE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of human biological and cultural evolution from prehuman ancestors to settled city-states. Consideration of contemporary peoples at various levels of social complexity.</td>
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<tr>
<td>ANT 306</td>
<td>CULTURE AND POWER</td>
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<tr>
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<td>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.</td>
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</tbody>
</table>
Prerequisite(s): ANT 150.

ANT 310 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
Introduction to the scientific study of language and its relationship to other aspects of human behavior.

ANT 320 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
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
Survey of anthropology research on urban issues. Considers how cities arose and how urban people make a living, organize, and think. Considers urban futures.

ANT 352 CULTURES OF LATIN AMERICA
Origin and development of ancient civilizations including the Aztec, the Maya, and the Inca. Survey of contemporary cultures, with special emphasis on peasant life.

ANT 356 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 OF SOUTH ASIA
Examination of South Asia through the lens of anthropology. Explores the postcolonial era, South Asia's dynamic religious traditions, the study of caste, "Bollywood" and popular cultures, Hindu nationalism, and the South Asian diaspora in the West.

ANT 368 IMMIGRATION AND IMMigrants
Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. (Same as SOC 368.) Prerequisite(s): (SOC 101 or 204) or ANT 150.

ANT 392 SPECIAL TOPICS IN ANTHROPOLOGY
Intensive examination of current thematic, theoretical, or methodological issues from the viewpoint of anthropology. May be repeated as topics change. Prerequisite(s): ANT 150; permission of instructor.

ANT 449 ANTHROPOLOGICAL FIELD WORK
Formulation and carrying out of a research design in archaeology, physical anthropology, linguistics, or cultural anthropology. Prerequisite(s): Permission of instructor.

ANT 477 HONORS THESIS PROJECT

Ants of 11
7/16/2012 3:13 PM
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 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.

ANT 497 SERVICE LEARNING EXPERIENCE

Supervised community research or service experience that complements a specific upper division course in Anthropology. Repeatable up to three semester hours. 

**Prerequisite(s):** Permission of instructor. 

**Corequisite(s):** A 300-400 level Anthropology course.

ANT 498 INDEPENDENT STUDY

Research problems or readings of special interest investigated under the guidance of an anthropology staff member. 

**Prerequisite(s):** Permission of department chairperson.

SOC 101 PRINCIPLES OF SOCIOLOGY

Study of social groups, social processes, and society; the individual's relationship to society, social structure, social inequality, ethnic minorities, cities and human populations, and social institutions such as the family, education, religion, and government.

SOC 204 MODERN SOCIAL PROBLEMS

Course to familiarize nonsociology majors with contemporary problems in society; historical development, current status, and analysis of problems, using modern social theories. Content may vary from section to section.

SOC 208 SOCIAL RESEARCH METHODS

Study of the logic of research design, data-gathering strategies, types of measurement, and sampling techniques. Both inductive and deductive approaches. Participation in research projects. 

**Prerequisite(s):** SOC 101 or 204.

SOC 303 MODERN SOCIAL THEORY

Consideration of the works of modern theorists and major trends in the history of social thought. 

**Prerequisite(s):** SOC 101 or 204.

SOC 305 CRIMINOLOGICAL THEORY

Study of the major theories of crime; consideration of the implications of theory for the criminal justice system. 

**Prerequisite(s):** SOC 101 or 204.

SOC 308 DATA ANALYSIS

The analysis and interpretation of both quantitative and qualitative social science data. 

**Prerequisite(s):** SOC 208. 

**Corequisite(s):** SOC 308L.

SOC 308L DATA ANALYSIS LABORATORY
Training in appropriate computer programs and computer analysis of social science data.

Prerequisite(s): SOC 208.

Corequisite(s): SOC 308.

SOC 309 COMMUNITY PRACTICE AND RESEARCH
Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system. (Same as SWK 303.)

Prerequisite(s): SOC 101 or 204; permission of instructor.

SOC 321 THE SOCIOLOGY OF WORK AND OCCUPATIONS
Survey of the major features of work and occupations in industrial society. The meaning of work, occupational choice and recruitment, occupational socialization, career patterns, and occupational rewards. Unemployment, underemployment, sex-typing, automation and alienation.

SOC 322 SEX ROLES AND SOCIETY
Research findings and major analytical approaches to study social and cultural influences on the development of personal sexual identity and relationships between men and women. Major social issues concerning human sexuality.

SOC 323 JUVENILE JUSTICE
The environmental and internal factors that influence or determine delinquent behavior; roles of individual juvenile offenders, parents or guardians, school, church, police, business community, community agencies, and the juvenile justice and correctional system in preventing and treating delinquent behavior.

Prerequisite(s): SOC 101 or 204.

SOC 325 DEViant BEHAVIOR
Description of various types of deviant behavior; for example, mental illness, alcoholism, drug addiction, the professional criminal. Study of explanations for the consequences and the role of deviant behavior in modern society.

Prerequisite(s): SOC 101 or 204.

SOC 326 LAW AND SOCIETY
Study of the legal system and practices from a sociological point of view; the historical origin and role of the law in society, issues relating to the law as an instrument of social control and/or social change; analysis of the legal profession.

SOC 327 CRIMINOLOGY
Social and cultural nature, origin, and development of law; criminal behavior; crime control. The influence of society in the creation and organization of legal and crime control systems. Biological, psychological, and sociological factors leading to criminal behavior.

Prerequisite(s): SOC 101 or 204.

SOC 328 RACIAL AND ETHNIC MINORITIES
Study of the major immigrant and racial groups in the United States and other countries. Issues and problems related to their minority status in the dominant culture.

SOC 330 PERSPECTIVES ON AGING
An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. (Same as SWK 330.)

SOC 331 MARRIAGE AND THE FAMILY
Historical, cross-cultural, and current study of social relationships during dating and courtship, interpersonal communication in marriage and family life, sexuality in marriage, adjustments in parenthood, divorce and remarriage, alternatives to traditional marriage, and the future of marriage and family life.
SOC 332  SOCIOL OGY 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  SOCIOL OGY OF SEXUALITIES
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 204.

SOC 334  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 interactions between religious phenomena and other social institutions and societal behavior. **Prerequisite(s):** SOC 101 or 204.

SOC 336  ORGANIZATIONS IN MODERN SOCIETY
Analysis of the dynamics of organizations in modern industrial society. Organizational social psychology, organizational structure and process, and organization-community relations. **Prerequisite(s):** SOC 101 or 204.

SOC 337  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 204.

SOC 339  SOCIAL INEQUALITY
Study of social inequality in society. Emphasis on the processes that divide people into unequal groups based on wealth, status, and power. The effects of inequality on individual life chances and lifestyles.

SOC 340  SOCIAL PSYCHOLOGY IN SOCIETY
Survey of the basic principles, concepts, theories, and methods of social psychology from the sociological perspective. **Prerequisite(s):** SOC 101 or 204.

SOC 341  SELF AND SOCIETY
Study of the relationship between self and others. Socialization, self conceptions, deviant behavior, social influence, and social control.

SOC 342  COLLECTIVE BEHAVIOR
Study of social protest, crowds, social movements, revolution, fads, fashion, public opinion processes, propaganda, and political and social responses to these phenomena. **Prerequisite(s):** SOC 101 or 204.

SOC 343  MASS COMMUNICATION IN MODERN SOCIETY
Social-psychological analysis of the structure and processes of mass communication related to advertising, patterns of social behavior, social change, propaganda, censorship, media control, and social institutions.

SOC 344  INTERACTION PROCESSES
Study of the interaction processes of social life. Bargaining and negotiation, cooperation, social influence, solidarity, competition, and conflict. **Prerequisite(s):** SOC 101 or 204.

SOC 345  SOCIOL OGY OF EXTREMISM
Study of the social understanding and social construction of identity, otherness, difference, and extremism in such cases as the development of white racial extremism in the United States.

**Prerequisite(s):** SOC 101 or 204.

**SOC 348 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 204) or CJS 101 or permission of instructor.

**SOC 351 URBAN SOCIOLOGY**

The study of the development of urban life from ancient times to the present, with an emphasis on contemporary urban population characteristics, social-economic-political structure, and problems.

**Prerequisite(s):** SOC 101 or 204.

**SOC 352 COMMUNITY**

Study of the interaction of groups and individuals related by common situations, problems and intentions; creation, maintenance, eclipse, and restoration of close social ties in urban neighborhoods, small towns, and groups with similar interests and lifestyles.

**SOC 355 FAMILIES AND THE ECONOMY**

The relationship between families and their socio-economic environment. Consideration of public issues including family policy and government programs to assist families.

**Prerequisite(s):** SOC 101 or 204.

**SOC 368 IMMIGRATION AND IMMIGRANTS**

Perspectives on immigration and ethnicity. Studies of social and economic adaptation of new immigrants and the second generation in communities, cities, and societies. Ethnic change, conflict, and contemporary national and international issues, with an emphasis on human rights. (Same as ANT 368.)

**Prerequisite(s):** (SOC 101 or 204) or ANT 150.

**SOC 371 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 204) or permission of instructor.

**SOC 392 SELECTED TOPICS IN SOCIOLOGY**

Examination of a current topic of general interest in sociology. Majors and nonmajors may enroll. Consult composite for topics. May be repeated as topic changes.

**Prerequisite(s):** SOC 101 or 204.

**SOC 394 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 204.

**SOC 398 SOCIAL SCIENCE SCHOLARS' SEMINAR**

Study and seminar discussion of selected sociological writings and the analysis, interpretation and criticism of these works. Open only to students in the Berry Scholars Program.

**Prerequisite(s):** ENG 198; HST 198.

**SOC 409 SENIOR PROJECT**
A 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 303, 308, 308L.

**SOC 410 VICTIMOLOGY**

The study of victimization including the relationships between victims and offenders, the interactions of victims and the criminal justice system and other social groups and institutions. 

**Prerequisite(s):** SOC 101 or 204; 12 hours of course work in the social sciences.

**SOC 426 LEADERSHIP IN BUILDING COMMUNITIES**

Investigation of the processes by which urban neighborhoods develop themselves from the inside out. Students cultivate their own interdisciplinary appreciation of urban communities through extensive interaction with one neighborhood's visioning process. Topics include asset-based community development, social capital, citizenship, adaptive leadership, and community building strategies and tools. Same as POL 426.

**Prerequisite(s):** Junior standing.

**SOC 432 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 204.

**SOC 435 ECONOMY AND SOCIETY**

Sociological analysis of modern economic institutions, with an emphasis on classical themes. Topics include capitalism, industrialism and social consequences of contemporary economic trends. Empirical research will be required.

**Prerequisite(s):** SOC 101 or 204; permission of instructor.

**SOC 437 MARX AND SOCIOLOGY**

Study of Marx's writings on topics relevant to the social sciences. Comparison of contemporary Marxian scholarship in such areas as social inequality, political structures, urban change, ideology and consciousness, and models for the future.

**Prerequisite(s):** SOC 101 or 204; junior or senior standing.

**SOC 438 URBAN POVERTY**

Study of the social factors that contribute to poverty in cities. Consideration of the social effects of government and other programs to alleviate poverty.

**Prerequisite(s):** SOC 101 or 204.

**SOC 477 HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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 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 IN SOCIOLOGY**

1-6
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 204; permission of instructor.

**SOC 495  SOCIOLOGY INTERNSHIP**
1 - 6
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 EXPERIENCE**
1
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
Research or special readings on problems of interest to the student under the guidance of sociology staff member.

**Prerequisite(s):** Permission of department chairperson.

**SWK 201  SOCIAL WORK PRACTICE AND PROFESSION**
3
Study of the historical and theoretical underpinnings of the social work profession. Study of social work practice theory and technique.

**SWK 303  COMMUNITY PRACTICE AND RESEARCH**
3
Study of the design and implementation of community research, including needs assessment and program evaluation in the social service system. (Same as SOC 309.)

**Prerequisite(s):** SOC 101 or 204; permission of instructor.

**SWK 305  SOCIAL SERVICES IN THE HEALTH FIELD**
3
The role of social services in health care facilities and governmental health programs. U.S. health care policies and programs; methods of social work intervention in medical settings.

**SWK 307  MENTAL HEALTH SERVICES**
3
Study of historical perspectives, deinstitutionalization, the community mental health movement, inpatient care, and innovative approaches. Policy and practice implications are examined.

**SWK 310  LAW AND HUMAN SERVICES**
3
Orientation to the legal system as it affects the provision of human services and the profession; social legislation and court decisions as they affect child welfare, public assistance, mental health, housing, and probation and parole services.

**SWK 325  CHILD ABUSE**
3
Comprehensive study of child abuse: its history, scope, causal factors, indicators for detection, treatment resources and modalities, and community responsibility.

**SWK 327  PARENTING: SOCIAL WELFARE ROLE**
3
Comprehensive study of historical and contemporary perspectives on parenting, future of parenting (assessing trends and choices in family structure and function), cross-cultural comparisons, policy and legal aspects of parenting, societal influences on parenting.

**SWK 330  PERSPECTIVES ON AGING**
3
An introduction to the field of gerontology. Focus on the major physical, psychological, and social dynamics of aging. Selected issues will be highlighted. (Same as SOC 330.)

**SWK 331  DEATH, DYING, AND SUICIDE**
3
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 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 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
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
Exploration of special topics related to the field of human services. Assessment of appropriate literature and research. May be repeated as topics change.

SWK 401 COMMUNITY FIELD EXPERIENCE
Supervised field experience for students working in a micro or macro practice setting. Concurrent seminar includes intensive basic communication and interviewing skill development. Students spend 150 hours in the agency. 

Prerequisite(s): SWK 201; permission of instructor.

SWK 465 INDEPENDENT STUDY
Individual research, study, and readings on specific topics and/or projects of importance to social work. Under individual faculty direction. 

Prerequisite(s): Permission of instructor.

SWK 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with department chairpersons.

Prerequisite(s): Approval of University Honors Program.

SWK 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

SWK 497 SERVICE LEARNING EXPERIENCE
Supervised community research or service experience that complements a specific upper division course in Social Work. Repeatable up to three semester hours.

Prerequisite(s): Permission of instructor.

Corequisite(s): A 300-400 level Social Work course.
School of Education and Allied Professions  
(EDT) Teacher Education  
(Collapse Description)

The University of Dayton's Department of Teacher Education has adopted a theme that is integrated 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, and 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 competing fields in demonstrating particular objectives in field-based teaching 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).

Faculty

Kathryn Kinnucan-Welsch, Chairperson
Professors Emeriti: Anderson, Frye, Fuchs, Gay, Geiger, Grob, Joseph, Kosterman, Sudzina
Professors: Hart, Kinnucan-Welsch, Lasley, Rowley, Talbot-Johnson, Watras
Associate Professors: Adams, Biddle, Bowman, Herrelko, Hunn, Richards, Tilman, Weaver
Assistant Professors: Baldwin, Colopy, Kelly, White
Lecturer: Mullins
Administrative Faculty: Mathes, Nonenone
Other Faculty: Andrews, Corningore, Eggemeier, Engelhardt, Ferguson, Lewellyn, Oberlander, Scheuermann

Sub-Categories / Concentrations / Focus Areas

Early Childhood Leadership and Advocacy Certificate  Early Intervention Certificate
Middle Childhood Generalist Endorsement  Pre-Kindergarten Special Needs Endorsement
Teacher Education majors

Majors/Minors  
(Collapse All)

Major/Minor Name

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 provisional license to teach learners ages twelve through twenty-one and grades seven through twelve.

A student in the Adolescence to Young Adult Education Program is required to have a single comprehensive teaching field. 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 content coursework in both concentrations must be completed before entering senior year methods/student teaching experience. Students must verify "good moral character," be fingerprinted, and pass the Ohio Department of Education's required PRAXIS II exams in Professional Knowledge and the content area to be recommended for the provisional license.

Adolescence to young adult education teaching fields include the following:
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 Provisional Adolescence to Young Adult License: grades 7-12.

| First-Year |  
| --- | --- |
| **First-Term** | **Sem. Hrs.** |
| EDT 109<sup>1</sup> PERSONAL ASPECTS OF TEACHING | 17 |
| ENG 101 COLLEGE COMPOSITION I | 1 |
| HST 103 THE WEST AND THE WORLD | 3 |
| MTH 114<sup>2</sup> CONTEMPORARY MATHEMATICS | 3 |
| PHL 103 INTRODUCTION TO PHILOSOPHY | 3 |
| Science elective | 3 |
| Science lab elective | 1 |
| **Second-Term** | **Sem. Hrs.** |
| CMM 110 GROUP DECISION MAKING | 17 |
| EDT 110<sup>1</sup> THE PROFESSION OF TEACHING | 1 |
| EDT 110L THE PROFESSION OF TEACHING LAB | 2 |
| ENG 102 COLLEGE COMPOSITION II | 3 |
| REL 103 INTRODUCTION TO RELIGION | 3 |
| Concentration | 3 |
| Science elective | 3 |
| Science lab elective | 1 |

| Sophomore-Year |  
| --- | --- |
| **First-Term** | **Sem. Hrs.** |
| EDT 222<sup>1</sup> DEVELOPMENT IN MC AND AYA | 16 |
| EDT 222L DEVELOPMENT IN MC AND AYA LAB | 3 |
| Concentration | 1 |
| Concentration | 3 |
| Concentration | 3 |
| Concentration | 3 |
| **Second-Term** | **Sem. Hrs.** |
| Concentration | 17 |
| Concentration | 3 |
| Concentration | 3 |
| Concentration | 3 |
| Historical Study elective | 3 |
| Physical/Health elective | 2 |
| Social Sciences elective | 3 |

| Junior-Year |  
| --- | --- |
| **First-Term** | **Sem. Hrs.** |
| CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111) | 17 |
| EDT 338 PERSUASIVE PUBLIC SPEAKING (CMM 112) | 1 |
| EDT 338L TEACHING AND LEARNING | 3 |
| EDT 338L TEACHING AND LEARNING LAB | 1 |
| EDT 340 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS | 3 |
| EDT 340L EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB | 0 |
Concentration/elective
PHL or REL elective

Second-Term
CMM 113 INTERVIEWING
Arts Study elective
Concentration
Concentration/elective
Concentration/elective
Concentration/elective

Senior-Year
First-Term
EDT 305
PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION
EDT 459
CRITICAL READING AND WRITING IN THE CONTENT AREA
Concentration/elective
Concentration/elective
Concentration/elective
Special methods in teaching field 1,4
Special methods Lab

Second-Term
EDT 475
STUDENT TEACHING - ADOLESCENCE TO YOUNG ADULT
Concentration/elective

1 Field experiences are arranged by the University. Must register for lab.
2 Only applicable to Language Arts and Social Studies majors.
3 Designates cohort courses to be taken together in the same semester.
4 EDT 305, 459, and special methods in teaching field must be taken concurrently in senior year.
5 Students will have a required seminar throughout the semester.

Bachelor of Science in Education with a major in Early Childhood Education (ECE)

The Department of Teacher Education administers the program in early childhood education, which leads to the Bachelor of Science in Education and provisional licensure to teach prekindergarten through grade 3.

A student in the Early Childhood Education Program is required to choose an area of focus for elective coursework 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 licensed. PRAXIS I is required or waived (with eligible SAT or ACT scores) by the end of the first year. To be recommended for the provisional licensure, the early childhood education major must also pass the Praxis II exit examination(s), verify they are of "good moral character", be fingerprinted, and pass the requisite background check.

Leading to Ohio Provisional Early Childhood License: prekindergarten-grade 3.

First-Year
First-Term
EDT 109 PERSONAL ASPECTS OF TEACHING
ENG 101 COLLEGE COMPOSITION I
HST 103 THE WEST AND THE WORLD
PHL 103 INTRODUCTION TO PHILOSOPHY
SCI 190 THE PHYSICAL UNIVERSE
SCI 190L THE PHYSICAL UNIVERSE LABORATORY
VAE 101 EARLY CHILDHOOD ART EDUCATION

Sem. Hrs. 16
Second-Term
CMM 110 GROUP DECISION MAKING
EDT 110 THE PROFESSION OF TEACHING

15
<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
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<tr>
<td>Sophomore</td>
<td>First Term</td>
<td>CMM 111 or 112</td>
<td>INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
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<td>EDT 211</td>
<td>CHILD DEVELOPMENT: BIRTH TO AGE 8</td>
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<td>CHILD DEVELOPMENT: BIRTH TO AGE 8 LAB</td>
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<td></td>
<td>EDT 305</td>
<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
<td>3</td>
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<td>CMM 113</td>
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<td>TEAM MODELS AND COLLABORATIVE ASSESSMENT</td>
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<td>LANGUAGE DEVELOPMENT AND EMERGENT LITERACY</td>
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<td>COLLABORATING WITH FAMILIES, PROFESSIONALS AND AGENCIES</td>
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<td>FOUNDATIONS OF LITERACY THROUGH LITERATURE</td>
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<td>ORGANISMS, EVOLUTION, AND ENVIRONMENT</td>
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<td>HEALTH AND MEDICAL ISSUES FOR EARLY CHILDHOOD</td>
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<td>EARLY CHILDHOOD ART METHODS</td>
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<td>EDT 412³</td>
<td>DEVELOPMENTALLY APPROPRIATE PRACTICE IN MATH FOR ECE</td>
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</table>
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.

A student in the Early Childhood Leadership and Advocacy program is required to complete 33 semester credit hours of professional education coursework, plus an additional 12 semester credit hours of UD workshop credit for specialty training, to achieve 121 semester credit hours.

<table>
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<tr>
<th>Introduction</th>
<th>Sem. Hrs.</th>
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<td>Third Term</td>
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<td>EDT 461E SUPPORTING QUALITY CURRICULUM AND</td>
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<tr>
<td>INSTRUCTION IN EARLY CARE AND EDUCATION</td>
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<td>EDT 460E EARLY CHILDHOOD PROGRAM AND PERSONNEL</td>
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<td>EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN</td>
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<td>EDT 462E REGULATIONS, LICENSING, AND THE LAW IN</td>
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<td>EDT 344 COLLABORATING WITH FAMILIES, PROFESSIONALS</td>
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<td>AND AGENCIES</td>
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<td>EDT 463E MANAGING FINANCES AND MARKETING IN EARLY</td>
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<td>CARE AND EDUCATION</td>
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<td>EDT 464E ADVOCACY IN EARLY CARE AND EDUCATION</td>
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<td>EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN</td>
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Workshop
Third Term
EDT 465E  INTERNSHIP AND PRACTICUM IN EARLY CHILDHOOD ADMINISTRATION
Workshop

Bachelor of Science in Education with a major in Foreign Language Education (ELA)

Three concentrations are available: French, German, and Spanish.

<table>
<thead>
<tr>
<th>First-Year</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>First-Term</td>
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<td>EDT 109 PERSONAL ASPECTS OF TEACHING</td>
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<td>ENG 101 COLLEGE COMPOSITION I</td>
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<td>HST 103 THE WEST AND THE WORLD</td>
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<td>MTH 114 CONTEMPORARY MATHEMATICS</td>
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<td>PHL 103 INTRODUCTION TO PHILOSOPHY</td>
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<td>Concentration</td>
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<tr>
<td>Second-Term</td>
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<td>CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111)</td>
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<td>EDT 110 THE PROFESSION OF TEACHING</td>
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<td>ENG 102 COLLEGE COMPOSITION II</td>
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<td>REL 103 INTRODUCTION TO RELIGION</td>
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<td>Concentration</td>
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<tr>
<td>Physical/Health Ed Elective</td>
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<tr>
<td>Science elective and lab</td>
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| Sophomore-Year                  | 17        |
| First-Term                      | 17        |
| EDT 207 CHILD AND ADOLESCENT IN EDUCATION | 3 |
| EDT 207L CHILD AND ADOLESCENT IN EDUCATION LAB | 1 |
| Concentration                   | 3         |
| PHL or REL elective             | 3         |
| Science elective and lab        | 4         |
| Social Sciences elective        | 3         |
| Second-Term                     | 17        |
| EDT 338 TEACHING AND LEARNING   | 3         |
| EDT 338L TEACHING AND LEARNING LAB | 1        |
| Concentrations                  | 6         |
| Arts Study elective             | 3         |
| Historical Study elective       | 3         |
| Physical/Health Ed Elective     | 1         |

| Summer After Second Year        | 1-7       |
| Study Abroad (Concentration)    | 1-7       |

| Junior-Year                     | 16        |
| First-Term                      | 16        |
| CMM 113 INTERVIEWING            | 1         |
| EDT 340 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS | 3 |
| EDT 340L EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB | 0 |
| LNG 320 INSTRUCTED SECOND LANGUAGE ACQUISITION | 2 |
| LNG 468 INTRODUCTION TO LINGUISTICS | 3 |
| Concentrations                  | 6         |
| Physical/Health Ed Elective     | 1         |
| Second-Term                     | 16        |
LNG 330  TEACHING WORLD LANGUAGES IN THE ELEMENTARY SCHOOL (PK-6)  4
Concentration 2
Concentration  3
Concentration/electives  6

Summer After Third Year  1-7
Study Abroad (Concentration) 1  1-7

Senior-Year
First-Term  17
EDT 305  PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION  3
EDT 433  FOREIGN LANGUAGE METHODS FOR ADOLESCENT TO YOUNG ADULT  4
EDT 433L  FOREIGN LANGUAGE METHODS FOR AYA (7-12)  1
Field Internship
Concentrations  6
Concentration/elective  3

Second-Term  15
EDT 471  STUDENT TEACHING-FOREIGN LANGUAGES K-12  12
Concentration  3

1 Participation in an approved study-abroad immersion program for a summer, semester, or academic year is strongly recommended. Experience shows that study abroad is a major factor in the successful completion of the professional requirements: field experiences, PRAXIS II and PRAXIS III Examinations in foreign languages.
2 FRN 469, GER 469, or SPN 469

Bachelor of Science in Education with a major in Intervention Specialist (EMI)

The Department of Teacher Education offers the program for intervention specialist, which leads to licensure to teach learners kindergarten through grade twelve with mild to moderate educational needs. Students in this program also have an emphasis in the middle childhood studies.

Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average is required overall and in professional education courses to continue in the program, to student teach, and to be recommended for licensure. PRAXIS I, is required or waived, by the end of the first year.

Students should take electives as needed to achieve 124 semester credit hours. At the completion of the program, to be recommended for a provisional license, all students are required to pass the Praxis II exit examinations required by Ohio's Department of Education, to verify they are of "good moral character," and to be fingerprinted.

Leading to Ohio Provisional Intervention Specialist License: grades K-12.
**Sophomore-Year**

**First-Term**

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<td>PERSUASIVE PUBLIC SPEAKING (CMM 112)</td>
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<td>EDT 207L</td>
<td>CHILD AND ADOLESCENT IN EDUCATION</td>
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<td>EDT 207L3</td>
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<td>EDT 305</td>
<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
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<td>PHL or REL elective</td>
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**Second-Term**

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<td>LANGUAGE DEVELOPMENT AND EMERGENT LITERACY</td>
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<td>EDT 343</td>
<td>INTRODUCTION TO EDUCATION OF LEARNERS</td>
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<tr>
<td>EDT 343L3</td>
<td>INTRODUCTION TO EDUCATION OF LEARNERS</td>
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<td>MTH 205</td>
<td>MATHEMATICAL CONCEPTS II</td>
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<td>SCI 230</td>
<td>ORGANISMS, EVOLUTION, AND ENVIRONMENT</td>
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**Junior-Year**

**First-Term**

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<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD</td>
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<td>CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LAB</td>
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<td>EDT 342</td>
<td>BEHAVIOR MANAGEMENT</td>
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<td>FOUNDATIONS OF LITERACY THROUGH LITERATURE</td>
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<td>EDT 445</td>
<td>APPLICATION OF COMPUTERS/TECHNOLOGY IN SPECIAL EDUCATION</td>
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**Second-Term**

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<td>THE MIDDLE SCHOOL PRINCIPLES AND PRACTICES</td>
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<td>ADAPTING CONTENT STANDARDS FOR STUDENTS WITH SPECIAL NEEDS</td>
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<td>EDT 441L</td>
<td>ADAPTING CONTENT STANDARDS FOR STUDENTS WITH SPECIAL NEEDS LAB</td>
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<td>EDT 450</td>
<td>PHONICS, SPELLING, AND VOCABULARY</td>
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<td>INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD</td>
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**Senior-Year**

**First-Term**

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<td>EDT 442</td>
<td>ASSESSMENT: MILD/MODERATE</td>
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<td>EDT 442L3</td>
<td>INTERVENTION SPECIALIST: MILD/MODERATE</td>
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<td>EDT 443</td>
<td>CURRICULUM: MILD/MODERATE</td>
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<td>EDT 444</td>
<td>INSTRUCTIONAL STRATEGIES: MILD/MODERATE</td>
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<td>EDT 454</td>
<td>METHODS OF LITERACY INSTRUCTION AND ASSESSMENT FOR EARLY CHILDHOOD</td>
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<td>STUDENT TEACHING-INTERVENTION SPECIALIST: MILD/MODERATE</td>
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</table>

8 of 23
Field experiences are arranged by the University. Must register for lab.

Students should take a lab with either SCI 190, or SCI 230.

Must be taken concurrently. Field experience is required.

Designates cohort courses to be taken together in the same semester.

The Department of Teacher Education administers the program in middle childhood education, which leads to the Bachelor of Science in Education and a provisional license to teach grades 4-9.

A student in the Middle Childhood Education Program is required to have two concentrations of 24 or more semester hours in the following content areas: mathematics, sciences, social studies and reading/language arts.

Successful completion of EDT clinical experiences and a 2.5 cumulative grade point average is required overall, in professional education courses and in each of the concentration areas to continue in the program, to student teach, and to be recommended for provisional licensure. PRAXIS I, is required or waived, by the end of the first year.

Eighty percent of content coursework in both concentrations must be completed before entering senior year methods/student teaching experience. To be recommended for the provisional licensure, the middle childhood education major must also pass the Praxis II exit tests in professional knowledge and the two concentration areas and verify they are of "good moral character" and be fingerprinted.

Leading to Ohio Provisional Middle Childhood License: grades 4-9.

### First-Year

#### First-Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
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<td>PERSONAL ASPECTS OF TEACHING</td>
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<td>ENG 101</td>
<td>COLLEGE COMPOSITION I</td>
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<td>HST 103</td>
<td>THE WEST AND THE WORLD</td>
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<td>CONTEMPORARY MATHEMATICS (MTH 114)</td>
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<td>SCI 190</td>
<td>THE PHYSICAL UNIVERSE</td>
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<td>THE PHYSICAL UNIVERSE LABORATORY</td>
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#### Second-Term

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<td>GEO 204</td>
<td>GEOLOGY FOR TEACHERS</td>
<td>4</td>
</tr>
<tr>
<td>REL 103</td>
<td>INTRODUCTION TO RELIGION</td>
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<td>Social Science elective</td>
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### Sophomore-Year

#### First-Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDT 222</td>
<td>DEVELOPMENT IN MC AND AYA</td>
<td>3</td>
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<tr>
<td>EDT 222L</td>
<td>DEVELOPMENT IN MC AND AYA LAB</td>
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<tr>
<td>MUS 232</td>
<td>INTEGRATING THE ARTS</td>
<td>2</td>
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<tr>
<td>Concentration²</td>
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<td>Concentration²</td>
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<td>General Education HST requirement</td>
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#### Second-Term

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<tbody>
<tr>
<td>VAE 232</td>
<td>INTEGRATING THE ARTS: VISUAL ARTS</td>
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<tr>
<td>Concentration²</td>
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<td>Concentration²</td>
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### Junior-Year


### First-Year

#### Senior-Year

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<tr>
<td>113</td>
<td>INTERVIEWING</td>
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<td>452</td>
<td>CRITICAL READING IN THE CONTENT AREAS</td>
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</tr>
<tr>
<td>458</td>
<td>READING METHODS FOR MIDDLE CHILDHOOD</td>
<td>3</td>
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<tr>
<td>458L</td>
<td>MCE MIDDLE LEVEL (4-8) FIELD INTERNSHIP</td>
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<tr>
<td>Methods</td>
<td>Courses (select two)</td>
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<tr>
<td>425</td>
<td>READING/LANGUAGE ARTS FOR MIDDLE CHILDHOOD</td>
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<tr>
<td>427</td>
<td>MATH FOR MIDDLE CHILDHOOD</td>
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<td>428</td>
<td>SCIENCE FOR MIDDLE CHILDHOOD</td>
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<td>429</td>
<td>SOCIAL STUDIES FOR MIDDLE CHILDHOOD</td>
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<tbody>
<tr>
<td>474</td>
<td>STUDENT TEACHING--MIDDLE CHILDHOOD</td>
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</table>

1. Field experiences are arranged by the University. Must register for Lab.
2. Fewer concentration hours may be required depending upon chosen concentrations.
3. Designates cohort courses to be taken together in the same semester.

Bachelor of Science in Education with a major in Secondary Catholic Religious Education (ERL)

Leading to the Archdiocese of Cincinnati Certificate to teach Religion: grades 7-12.

### First-Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>110</td>
<td>GROUP DECISION MAKING</td>
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<td>109</td>
<td>PERSONAL ASPECTS OF TEACHING</td>
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<tr>
<td>101 or 114</td>
<td>COLLEGE COMPOSITION I (ENG 101)</td>
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<tr>
<td>or 198</td>
<td>FRESHMAN WRITING SEMINAR (ENG 114)</td>
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<td>198</td>
<td>ENGLISH SCHOLARS' SEMINAR (ENG 198)</td>
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<td>103</td>
<td>THE WEST AND THE WORLD</td>
<td>3</td>
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<tr>
<td>114 or 207</td>
<td>CONTEMPORARY MATHEMATICS (MTH 114)</td>
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<tr>
<td>103</td>
<td>INTRODUCTION TO STATISTICS (MTH 207)</td>
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<td>103</td>
<td>INTRODUCTION TO RELIGION</td>
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<td>Elective</td>
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<td>110</td>
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Sem. Hrs.
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<tr>
<td>ENG 102</td>
<td>COLLEGE COMPOSITION II</td>
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<td>PHL 103</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<tr>
<td>SCI 190</td>
<td>THE PHYSICAL UNIVERSE</td>
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<td>SCI 190L</td>
<td>THE PHYSICAL UNIVERSE LABORATORY</td>
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<td>Scripture</td>
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<td>Sophomore-Year</td>
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<td>First-Term</td>
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<td>CMM 111 or 112</td>
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<td>PHYSICAL EDUCATION ACTIVITIES</td>
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<td>REL 327,3</td>
<td>U.S. RELIGIOUS EXPERIENCE</td>
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<td>Science</td>
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<tr>
<td>REL 328,3</td>
<td>U.S. CATHOLIC EXPERIENCE</td>
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<td>PSY 451 or SOC 334</td>
<td>PSYCHOLOGY OF RELIGION (PSY 451)</td>
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<tr>
<td>or SOC 334</td>
<td>RELIGION AND SOCIETY (SOC 334)</td>
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<td>Liturgical/Sacramental</td>
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<td>Electives</td>
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<td>REL Forum</td>
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<td>Junior-Year</td>
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<td>First-Term</td>
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<tr>
<td>EDT 338</td>
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<td>EDT 338L</td>
<td>TEACHING AND LEARNING LAB</td>
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<td>EDT 340</td>
<td>EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS</td>
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<td>REL 323 or 324,3,4</td>
<td>HISTORY OF CHRISTIANITY I (100-1100) (REL 323)</td>
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<td>or REL 324</td>
<td>HISTORY OF CHRISTIANITY II (1100-PRESENT) (REL 324)</td>
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<td>REL 329,3</td>
<td>AFRICAN-AMERICAN RELIGION</td>
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<td>ENG 328 or 384</td>
<td>AMERICAN NOBEL AUTHORS (ENG 328)</td>
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<td>or ENG 384</td>
<td>or ENG CHRISTIANITY AND MODERN POETRY (ENG 384)</td>
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<td>or MUS 350</td>
<td>SACRED MUSIC HISTORY (MUS 350)</td>
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<td>REL Forum</td>
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<tr>
<td>CMM 113</td>
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<tr>
<td>Doctrine</td>
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<td>Morality</td>
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<tr>
<td>World Religion</td>
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<td>Electives</td>
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<td>Senior-Year</td>
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<tr>
<td>EDT 305</td>
<td>PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION</td>
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<tr>
<td>EDT 459</td>
<td>CRITICAL READING AND WRITING IN THE CONTENT AREA</td>
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<td>REL Forum</td>
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<td>Second-Term</td>
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<tr>
<td>EDT 475</td>
<td>STUDENT TEACHING - ADOLESCENCE TO YOUNG ADULT</td>
<td>12</td>
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</table>

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A minimum of 30 semester hours in religious studies must be completed. At least one course must be taken from each of the following areas: Doctrine, Historical, Liturgical/Sacramental Theology, Morality, Scripture.

This program includes 21 hours of unspecified elective coursework which can be used to meet the requirements for one of the concentration areas that lead to the Adolescence to Young Adult Teaching License. See checksheets at http://soeap.udayton.edu/academic/edt/checksheets.htm. Summer coursework and/or an additional year of study may be required.

REL 327, 328, 329, and any level world religion course is highly recommended to achieve the required 30 hours in religious studies.

Take PSY 451 or SOC 334 and ENG 323 or 384 or MUS 350 and REL 323 or 324 to meet UD's upper level general education electives for social science, art study, and historical study and to fulfill the requirements for the Catholic Intellectual Tradition cluster.

Bachelor of Science in Education with a major in Visual Arts Education (EAR)

Four concentrations are available: Art History, Photography, Studio Art, and Visual Communication Design.

First-Year

<table>
<thead>
<tr>
<th>First-Term</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>CMM 110 GROUP DECISION MAKING</td>
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<td>EDT 109 PERSONAL ASPECTS OF TEACHING</td>
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<td>ENG 101 COLLEGE COMPOSITION I</td>
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<tr>
<td>HST 103 THE WEST AND THE WORLD</td>
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<tr>
<td>PHL 103 INTRODUCTION TO PHILOSOPHY</td>
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<tr>
<td>REL 103 INTRODUCTION TO RELIGION</td>
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<tr>
<td>VAF 104 FOUNDATION DRAWING</td>
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Second-Term

| CMM 111 or 112 INFORMATIVE PUBLIC SPEAKING (CMM 111) | 1         |
| PERSUASIVE PUBLIC SPEAKING (CMM 112) | 1         |
| EDT 110 THE PROFESSION OF TEACHING | 2         |
| EDT 110L THE PROFESSION OF TEACHING LAB | 1         |
| ENG 102 COLLEGE COMPOSITION II | 3         |
| MTH 114 CONTEMPORARY MATHEMATICS | 3         |
| VAF 112 FOUNDATION 2-D DESIGN | 3         |
| VAF 200 INTRODUCTION TO VISUAL ARTS COMPUTING | 1         |
| VAH Elective | 3         |

Sophomore-Year

<table>
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<th>First-Term</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>VAE 231 INTRODUCTION TO ART EDUCATION</td>
<td>2</td>
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<tr>
<td>VAF 117 FOUNDATION 3-D DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>VAF 216 DESIGN AND COLOR</td>
<td>3</td>
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<tr>
<td>VAP 101 FOUNDATION PHOTOGRAPHY</td>
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<tr>
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<td>VAH Elective</td>
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Second-Term

| EDT 207 CHILD AND ADOLESCENT IN EDUCATION | 3         |
| EDT 207L CHILD AND ADOLESCENT IN EDUCATION LAB | 1         |
| VAF 226 PAINTING I | 3         |
| VAF 232 SCULPTURE I | 3         |
| VAF 240 or 242 CERAMICS I (VAF 240) | 3         |
| CERAMICS II (VAF 242) | 3         |
| VAH Elective | 3         |

Junior-Year

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CMM 113 INTERVIEWING</td>
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<td>VAF 253 or 353 PRINTMAKING I (VAF 253)</td>
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<td>PRINTMAKING II (VAF 353)</td>
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<tr>
<td>Arts Study elective</td>
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<tr>
<td>Physical/Health Ed Elective</td>
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<td>Science elective and lab</td>
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<td>Social Science elective</td>
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Second-Term

16
VAE 363 FOUNDATION OF ART EDUCATION 3
Science elective and lab 4
VAH Elective 3
VAR Concentrations 6

Senior-Year
First-Term 18
EDT 305 PHILOSOPHY AND HISTORY OF AMERICAN EDUCATION 3
EDT 340 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS 3
EDT 340L EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB 0
EDT 459 CRITICAL READING AND WRITING IN THE CONTENT AREA 3
VAE 483 TEACHING VISUAL ARTS 3
VAR Concentrations 6

Second-Term 15
EDT 477 STUDENT TEACHING--ART K-12 12
VAR Concentration 3

1VAH 201, 202, or 203.
2VAH 470,471, or 483.

Courses (Collapse All Courses)

<table>
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<tr>
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<tbody>
<tr>
<td>EDT 109</td>
<td>PERSONAL ASPECTS OF TEACHING</td>
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<td>EDT 110</td>
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<td>EDT 110L</td>
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<td>EDT 207</td>
<td>CHILD AND ADOLESCENT IN EDUCATION</td>
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<tr>
<td>EDT 207L</td>
<td>CHILD AND ADOLESCENT IN EDUCATION LAB</td>
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<tr>
<td>EDT 211</td>
<td>CHILD DEVELOPMENT: BIRTH TO AGE 8</td>
<td>3</td>
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</tbody>
</table>

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 is designed to study the principal components of effective teaching that facilitate the learning of all students. Current educational issues, the PRAXIS III/Pathwise framework, INTASC standards, other professional standards, developing a community of learners, service learning and teaching incorporating the Marianist traditions are other topics of the course. Field experience required.

Prerequisite(s): EDT 109 or permission of dean's undergraduate coordinator.
Corequisite(s): EDT 110.

This lab consists of planned field experiences providing candidates the opportunity for field reflections in school settings.

Corequisite(s): EDT 110.

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 207.

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.

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. CHILD DEVELOPMENT: BIRTH TO AGE 8 LAB**

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. 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. EARLY CHILDHOOD THEORY AND PRACTICE LAB**

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. 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. DEVELOPMENT IN MC AND AYA LAB**

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. 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. 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 311. EARLY CHILDHOOD HEALTH AND NUTRITION**

This course is designed to meet the requirements of the Ohio Department of Jobs and Family Services related to common childhood illnesses, child abuse, pediatric heart health and first aid, and nutrition for young children. Certificates of completion will be issued.

**EDT 312. 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 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; HSS 333, 334.

EDT 313L DEVELOPMENTALLY APPROPRIATE PRACTICE FOR PRESCHOOL LAB
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 TEAM MODELS AND COLLABORATIVE ASSESSMENT
This course provides an in depth study of transdisciplinary teamwork 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, 212.

EDT 315 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, 212.

EDT 317 EARLY CHILDHOOD ART METHODS
This course will expand the knowledge of how young children, age three through five, learn and develop and how to provide opportunities that support the physical, social, emotional, language, cognitive and aesthetic development of children from three through age five, with extensive focus on the content area of art. Field experience required.
Prerequisite(s): EDT 212.

EDT 321 CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD
This course is the study of the middle childhood student within the classroom environment. Theories of learning and practical applications, motivation, classroom management and discipline, lesson and unit planning, teaching methodologies and assessment are examined and practiced. Field experience required.
Prerequisite(s): EDT 110, 222.
Corequisite(s): EDT 321L.

EDT 321L CLASSROOM ENVIRONMENT FOR MIDDLE CHILDHOOD LAB
This lab consists of planned field experiences providing candidates the opportunity for field reflections in regards to learning theories and classroom management in middle level school settings.
Corequisite(s): EDT 321.

EDT 331 RELIGION METHODS
This course examines the planning, diagnosis, instructional methods, materials and assessment techniques utilized in teaching religion to students with varied needs and abilities.
Prerequisite(s): EDT 338; junior standing.

EDT 338 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 222.
Corequisite(s): EDT 338L.

EDT 338L TEACHING AND LEARNING LAB
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 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 EDUCATING DIVERSE STUDENT POPULATIONS IN INCLUSIVE SETTINGS LAB
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 340.

EDT 341 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
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 INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS
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): ECE: EDT 340.
Corequisite(s): EDT 343L.

EDT 343L INTRODUCTION TO EDUCATION OF LEARNERS WITH MILD/MODERATE LEARNING NEEDS LAB
This lab consists of planned field experiences providing candidates the opportunity for field reflections in relation to the individual learning needs of students in school settings.
Corequisite(s): EDT 343.

EDT 344 COLLABORATING WITH FAMILIES, PROFESSIONALS AND AGENCIES
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 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 ongoing assessment in teaching reading/language arts, and an awareness of cultural, linguistic, and ethnic diversity in individual learners.
Prerequisite(s): EDT 110.

EDT 400 INDEPENDENT STUDY
This course is an in-depth study of a selected educational topic. The candidate develops an individual learning plan that includes objectives, schedule of readings and assignments, products and methods of assessment.

**Prerequisite(s):** Permission of department chairperson.

**EDT 404 CURRENT INNOVATIONS IN EDUCATION**

This course is the study of current innovations in education. The course focuses on the examination and critical analysis of recent trends in curriculum and instructional and assessment strategies in P-12 schools.

**EDT 406 SPECIAL TOPICS IN TEACHING**

This course is the study of specialized areas of education not typically included in the professional education sequence. Topics are announced.

**EDT 412 DEVELOPMENTALLY APPROPRIATE PRACTICE 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, 212, 313; successful completion of field experience.

**Corequisite(s):** EDT 413, 414, 415, 415L, 454.

**EDT 413 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 content 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, 212, 313; successful completion of field experience.

**Corequisite(s):** EDT 412, 414, 415, 415L, 454.

**EDT 414 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, 212, 313; GEO 204; SCI 190, 190L, 230, 230L; successful completion of field experience.

**Corequisite(s):** EDT 412, 413, 415, 415L, 454.

**EDT 415 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, 340; successful completion of field experience.

**Corequisite(s):** EDT 412, 413, 414, 415L, 454.

**EDT 415L 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, 413, 414, 415, 454.

**EDT 419 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, 211, 212.
Corequisite(s): EDT 419L.

EDT 419L Kindergarten-Primary Curriculum and Instruction Lab
This 20 contact hour lab in a kindergarten or primary grades classroom supports the material covered in EDT 419.
Corequisite(s): EDT 419.

EDT 425 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 419.

EDT 426 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, 425.
Corequisite(s): EDT 458, 458L; two content methods courses.

EDT 427 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, 425.
Corequisite(s): EDT 458, 458L; two content methods courses.

EDT 428 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 321, 425.
Corequisite(s): EDT 458, 458L; two content methods courses.

EDT 429 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 321, 425.
Corequisite(s): EDT 458, 458L; two content methods courses.

EDT 431 Integrated Language Arts Methods for Adolescent to Young Adult
This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of integrated language arts to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio achievement and competency tests, various resources, technologies, interdisciplinary connections, various grouping techniques, best practices, and current research. Field experience required.
Prerequisite(s): EDT 222, 222L, 338, 338L.
Corequisite(s): EDT 305, 431, 459.
EDT 431L INTEGRATED LANGUAGE ARTS METHODS AYA (7-12) FIELD INTERNSHIP
This AYA field experience is the first semester of the senior level internship, providing the candidate with practice and reflection in the integrated language arts, AYA setting.
Corequisite(s): EDT 305, 431, 459.

EDT 432 MATH METHODS FOR ADOLESCENT TO YOUNG ADULT
This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of mathematics to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio achievement and competency tests, various resources, technologies, manipulatives, and other visuals, interdisciplinary connections, various grouping techniques, best practices, and current research. Field experience required.
Prerequisite(s): EDT 222, 222L, 338, 338L.
Corequisite(s): EDT 305, 432L, 459.

EDT 433 FOREIGN LANGUAGE METHODS FOR ADOLESCENT TO YOUNG ADULT
This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of foreign language to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio 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, 207L, 338, 338L.
Corequisite(s): EDT 305, 433L, 459.

EDT 434 SCIENCE METHODS FOR ADOLESCENT TO YOUNG ADULT
This course focuses on planning, diagnosis, instructional methods, materials, assessment, and evaluation techniques for teaching all levels of science to students in grades 7-12 with varied needs and abilities. Topics include: understanding Ohio's academic content standards for grades 7-12, applications and instructional techniques that address the Ohio 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, 222L, 338, 338L.
Corequisite(s): EDT 305, 434L, 459.

EDT 435 INTEGRATED SOCIAL STUDIES METHOD 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 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, 222L, 338, 338L.
Corequisite(s): EDT 305, 435L, 459.
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, 435, 459.

EDT 436  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  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  ADAPTING CONTENT STANDARDS FOR STUDENTS WITH SPECIAL NEEDS LAB
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  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, 340, 343, 425. **Corequisite(s):** EDT 442L, 443, 444.

EDT 442L  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, 443, 444.

EDT 443  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, 340, 343, 425. **Corequisite(s):** EDT 344, 442, 442L, 444.

EDT 444  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, 340, 343, 425. **Corequisite(s):** EDT 442, 442L, 443.

EDT 445  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, 343.

EDT 446  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, 442L, 443, 444.

EDT 447 INSTRUCTIONAL STRATEGIES: MODERATE
This course examines strategies for teaching and managing behaviors of students with moderate disabilities.
Prerequisite(s): EDT 321, 340, 343, 425.
Corequisite(s): EDT 442, 442L, 443, 444.

EDT 450 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 458.

EDT 452 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 INTRODUCTION TO LITERACY FOR EARLY CHILDHOOD
A 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 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, 453.

EDT 455 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 456 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 457 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, 222, 338, 338L.
Corequisite(s): EDT 305; two content methods courses.

EDT 460 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDT 460E</td>
<td>EARLY CHILDHOOD PROGRAM AND PERSONNEL MANAGEMENT LAB</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 461E</td>
<td>SUPPORTING QUALITY CURRICULUM AND INSTRUCTION IN EARLY CARE</td>
<td>3</td>
<td>This course provides opportunities for students to use research to identify and support quality early childhood curriculum, instruction, and assessment. Corequisite(s): EDT 461EL.</td>
</tr>
<tr>
<td>EDT 461EL</td>
<td>SUPPORTING QUALITY CURRICULUM AND INSTRUCTION IN EARLY CARE</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 462E</td>
<td>REGULATIONS, LICENSING, AND THE LAW IN EARLY CARE AND</td>
<td>3</td>
<td>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 462E.</td>
</tr>
<tr>
<td>EDT 462EL</td>
<td>REGULATIONS, LICENSING, AND THE LAW IN EARLY CARE AND</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 463E</td>
<td>MANAGING FINANCES AND MARKETING IN EARLY CARE AND EDUCATION</td>
<td>3</td>
<td>Students will explore strategies for managing finances and developing marketing plans in the field of early care and education. Prerequisite(s): EDT 460E.</td>
</tr>
<tr>
<td>EDT 464E</td>
<td>ADVOCACY IN EARLY CARE AND EDUCATION</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 465E</td>
<td>INTERNSHIP AND PRACTICUM IN EARLY CHILDHOOD ADMINISTRATION</td>
<td>6</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 471</td>
<td>STUDENT TEACHING-FOREIGN LANGUAGES K-12</td>
<td>12</td>
<td>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.</td>
</tr>
<tr>
<td>EDT 472</td>
<td>INTERNSHIP IN PRE-KINDERGARTEN SPECIAL NEEDS</td>
<td>3</td>
<td>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, 315, 415, 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.</td>
</tr>
<tr>
<td>EDT 473</td>
<td>STUDENT TEACHING - PRIMARY GRADES</td>
<td>12</td>
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</tbody>
</table>
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**  
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 following: EDT 426, 427, 428, 429; formal admission to student teaching a full semester in advance.

**EDT 475**  
STUDENT TEACHING - ADOLESCENCE 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**  
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, 343, 343L, 344, 442, 442L, 443, 444, 445; formal admission to student teaching a full semester in advance.

**EDT 477**  
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, 383, 483; formal admission to student teaching a full semester in advance and the methods courses.

**EDT 479**  
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, 332, 335; formal admission to student teaching a full semester in advance; piano proficiency and completion of junior/senior recital.

**EDT 498**  
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.
College of Arts and Sciences

(THR) 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 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: Dunleavy
Lecturer: Hermosillo

Majors/Minors (Collapse All)

Major/Minor Name

Bachelor of Arts with a major in Theatre (THR)

Sem. Hrs.

Theatre 38-41
THR 105, (305 or 307), 310, (325 or 326), 330, 340, (415 or 425), (440 or 485 or 490) 24-27
THR Laboratories 4
THR 100, 300 4
THR electives 2 10

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6
Literature: English or Foreign Language 3
Creative and Performing Arts 3
Foreign Language and/or Additional Arts and/or Humanities (excludes THR 100 and 300) 3-9
Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies

Introduction to the University: ASI 150 0-9

General Education courses/academic electives to total at least 124
A minimum of four semester hours of THR 100 and/or 300 are required for the degree program.

2. THR electives may include no more than three additional hours of THR 100 and/or 300.

3. Includes THR or other arts, excluding THR 100 and 300.

Minor in Theatre (THR)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 100</td>
<td>THEATRE LABORATORY</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THR 105</td>
<td>INTRODUCTION TO THE THEATRE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of the nature of theatre, its origin and development from the standpoint of the play, the physical theatre, and its place in our culture. Required of all majors. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>THR 201</td>
<td>BASIC DANCE FOR THE PERFORMING ARTIST</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Beginning course in movement introducing the basic principles of dance and performance technique. Open to all University students.</td>
<td></td>
</tr>
<tr>
<td>THR 202</td>
<td>STAGE MAKEUP</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THR 203</td>
<td>TECHNICAL PRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introductory survey of scene design, construction, painting, and lighting. Current theory will be examined along with practical applications and techniques.</td>
<td></td>
</tr>
<tr>
<td>THR 206</td>
<td>STAGE MANAGEMENT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THR 251</td>
<td>BEGINNING TAP DANCE</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Beginning course in the theory and practice of tap dance.</td>
<td></td>
</tr>
<tr>
<td>THR 261</td>
<td>BEGINNING JAZZ DANCE</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Beginning course in the theory and practice of jazz dance.</td>
<td></td>
</tr>
<tr>
<td>THR 271</td>
<td>BEGINNING BALLET</td>
<td>2</td>
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<tr>
<td></td>
<td>Beginning course in the theory and practice of classical ballet technique.</td>
<td></td>
</tr>
<tr>
<td>THR 300</td>
<td>THEATRE LABORATORY</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>The third and fourth-year level of credit allowance for role playing and/or play production. Requirements and registration same as for THR 100.</td>
<td></td>
</tr>
<tr>
<td>THR 301</td>
<td>INTERMEDIATE DANCE FOR THE PERFORMING ARTIST</td>
<td>2</td>
</tr>
</tbody>
</table>
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**  
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**  
Study and application of scene construction, rigging, backstage organization, production analysis, and technician-designer relationship.

**THR 307  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**  
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  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  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**  
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  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 majors.)  
**Prerequisite(s):** THR 105.

**THR 326  THEORY AND CRITICISM OF THE STAGE II**  
Continuation of THR 325 from romantic to modern periods.  
**Prerequisite(s):** THR 105.

**THR 330  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  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, 310, 330.

**THR 344  ACTING/DIRECTING FOR MUSICAL THEATRE**  
Study of performance and directing techniques for Musical Theatre. Studio fee.

**THR 350  THEATRE STYLES**
Examination of the relationships among playwright, audience, actor, designer, and director in the development of major theatre styles of expression.

THR 351 INTERMEDIATE TAP DANCE
Intermediate course in the theory and practice of tap dance.

THR 361 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 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
Intermediate course in the theory and practice of classical ballet technique.
Prerequisite(s): Permission of department chairperson.

THR 414 ADVANCED SCENE DESIGN
Individual development in scene design through intensive study in plays of various styles. Detailed representation of design ideas in rendering and models required.
Prerequisite(s): THR 330; permission of department chairperson.

THR 415 HISTORY OF THE THEATRE I
History of theatre from pre-Grecian through Elizabethan; the physical theatre as reflection of and influence on civilization. (THR 415 or 425 required of all majors.)

THR 424 PLAY DIRECTING
Study of the evolution of the modern director. Emphasis is on script interpretation as a basis for the development and execution of the production concept.
Prerequisite(s): THR 340.

THR 425 HISTORY OF THE THEATRE II
Continuance of 415 from the Italian Renaissance to the modern theatre. (THR 415 or 425 required of all majors.)

THR 440 PROBLEMS IN THEATRE PRODUCTION AND DESIGN
Individual research and project work of student's selection under the direct supervision of faculty. (THR 440 or THR 485 or THR 490 required of all majors.) Repeatable up to twelve semester hours.
Prerequisite(s): Permission of department chairperson.

THR 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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
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 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
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.
College of Arts and Sciences

(VAR) Visual Arts (Collapse Description)

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, Visual Communication 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
  - Photography
  - Visual Communication Design

**Program Descriptions:**

**Art History (VAH)**
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 (STA), Visual Communication Design
(VCD), or Photography (PTY). 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 (VAE)
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 (VAF)
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.

Photography (VAP)
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 Communication Design (VCD)
The Bachelor of Fine Arts (B.F.A.) with a major in Visual Communication 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.

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 Visual Communication 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**

Joel Whitaker, Chairperson  
Professors: Crum, Niles, Wilkinson  
Associate Professors: Clarke, Gooch, Huacuja, Marcinowski, Matlack-Whitaker, Phelps, Whitaker, Wilbers  
Assistant Professors: Holscher Almazan, Jones, Kwon, Parks  
Artist-in-Residence: Schanberger

**Sub-Categories / Concentrations / Focus Areas**

| Art Education | Art History  
| Fine Arts | Photography  
| Visual Communication Design |

**Majors/Minors (Collapse All)**

**Major/Minor Name**

Bachelor of Arts with a major in Art History (HOA)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art History</strong></td>
<td></td>
</tr>
<tr>
<td>VAH 101, 201, 202, 203, 485</td>
<td>15</td>
</tr>
<tr>
<td>VAR 299</td>
<td>0</td>
</tr>
<tr>
<td>VAH electives (300- or 400-level)</td>
<td>21</td>
</tr>
<tr>
<td>Major program electives$^1$</td>
<td>6</td>
</tr>
<tr>
<td><strong>Liberal Studies Curriculum</strong></td>
<td></td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Literature: English or Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language$^2$</td>
<td>0-8</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>11</td>
</tr>
<tr>
<td>Communication Competencies</td>
<td></td>
</tr>
<tr>
<td>Introduction to the University: VAR 100</td>
<td>0-1</td>
</tr>
<tr>
<td><strong>General Education courses/academic electives to total at least</strong></td>
<td>124</td>
</tr>
</tbody>
</table>

$^1$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, PHIL 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.

$^2$Where appropriate, this credit may apply to other requirements.

Bachelor of Arts with a major in Visual Arts (VAR)

<table>
<thead>
<tr>
<th>Major/Minor Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Arts</strong></td>
<td></td>
</tr>
<tr>
<td>VAD (215 or 218)</td>
<td>2</td>
</tr>
<tr>
<td>VAF 104, 112, 117, 216</td>
<td>12</td>
</tr>
<tr>
<td>VAP 101, (201 or 240)</td>
<td>6</td>
</tr>
<tr>
<td>VAR 299, 495, 496</td>
<td>4</td>
</tr>
<tr>
<td>Select one course from:</td>
<td></td>
</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td>3</td>
</tr>
</tbody>
</table>
VAH elective at the 300-400 level 3
Visual arts electives 15

Liberal Studies Curriculum

Humanities and Fine Arts
- Philosophy and Religious Studies 12
- History (excludes VAH courses) 6
- Literature: English or Foreign Language 3
- Foreign Language and/or Additional Arts and/or Humanities (excludes VAR courses) 3-9
- Social Sciences 12
- Mathematics (excludes MTH 102, 204, 205) 3
- Natural Sciences 11

Communication Competencies 0-9
Visual Arts Foundation: VAR 100 0-1

General Education courses/academic electives to total at least 124

1Nine of the fifteen hours to be selected from at least two of the following: VAD, VAF, VAP, and VAR. Nine of the fifteen hours must be at the 300-400 level.

Bachelor of Fine Arts with a major in Art Education (FAE)

<table>
<thead>
<tr>
<th>Art Education 1,2</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAE 231, 333, 483</td>
<td>8</td>
</tr>
<tr>
<td>VAF 104, 112, 117, 204, 216, 226, 232, (240 or 242), (253 or 353), 304, 498, 499</td>
<td>34</td>
</tr>
<tr>
<td>VAP 101</td>
<td>3</td>
</tr>
<tr>
<td>VAR 200, 299</td>
<td>1</td>
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<tr>
<td>Select two courses from:</td>
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</tr>
<tr>
<td>VAH 201, 202, 203</td>
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</tr>
<tr>
<td>Select one course from:</td>
<td>3</td>
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<tr>
<td>VAH 470, 471, 480, 483</td>
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<tr>
<td>VAH electives</td>
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</tr>
<tr>
<td>VAR electives</td>
<td>12</td>
</tr>
<tr>
<td>Education requirements:</td>
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</tr>
<tr>
<td>EDT 110, 110L, 207, 207L, 305, 340, 340L, 459, 477</td>
<td></td>
</tr>
</tbody>
</table>

Communication Competencies 0-9
Natural Sciences 6
Mathematics (excludes MTH 102, 204, 205) 3
Social and Behavioral Sciences (includes EDT courses) 6
Humanities (includes VAH 470 or 471 or 480 or 483) 6
Philosophy and Religious Studies 9
Introduction to the University: VAR 100 0-1

General Education courses/academic electives to total at least 134

1Students 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.
2Students 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 (STA)
<table>
<thead>
<tr>
<th>Fine Arts</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VAF 104, 112, 117, 204, 216, 226, 232, 253, 304, 326, 332, 353, 498, 499</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAP 101</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAR 299</td>
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<td></td>
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</tr>
<tr>
<td>VAF emphasis</td>
<td>12</td>
<td></td>
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</tr>
<tr>
<td>Select two courses from:</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAH electives (300-400 level)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual arts electives</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Competencies</td>
<td>0-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics (excludes MTH 102, 204, 205)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities (includes HST)</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>12</td>
<td></td>
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</tr>
<tr>
<td>Introduction to the University: VAR 100</td>
<td>0-1</td>
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<tr>
<td>General Education courses/academic electives to total at least</td>
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Bachelor of Fine Arts with a major in Photography (PTY)

<table>
<thead>
<tr>
<th>Photography</th>
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</thead>
<tbody>
<tr>
<td>VAF 104, 112, (117 or 216)</td>
<td>9</td>
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<tr>
<td>VAH 382, 480, 482</td>
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<td>VAP 101, 201, 240, 302, 410, 498, 499</td>
<td>19</td>
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<td>VAR 299</td>
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<tr>
<td>Select two courses from:</td>
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<tr>
<td>VAP 320, 330, 340</td>
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<td>Select two courses from:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>VAH 201, 202, 203</td>
<td>6</td>
<td></td>
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<tr>
<td>VAP electives (300-400 level)</td>
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<td>Communication Competencies</td>
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Bachelor of Fine Arts with a major in Visual Communication Design (VCD)

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<tr>
<th>Visual Communication Design</th>
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<td>Graphic Design concentration:</td>
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<td>VAP 101</td>
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**Computer Imaging concentration:**

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<td>Marketing or Communication</td>
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**Communication Competencies**

- Natural Sciences | 7 |
- Mathematics (excludes MTH 102, 204, 205) | 3 |
- Social and Behavioral Sciences | 3 |
- Humanities (includes HST) | 9 |
- Philosophy and Religious Studies | 12 |
- Introduction to the University: VAR 100 | 0-1 |

**General Education courses/academic electives to total at least** | 129 |

**Minor in Art History (HOA)**

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**Art History**

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**Minor in Fine Arts (STA)**

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**Minor in Photography (PTY)**

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**Minor in Visual Arts (VAR)**

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<tr>
<td>VAH (201 or 202 or 203)</td>
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<tr>
<td>VAP 101</td>
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</table>
Minor in Visual Communication Design (VCD)

| Courses (Collapse All Courses) | Code   | Title                                          | Sem. Hrs.
|--------------------------------|--------|------------------------------------------------|-----------
|                                | VAD 211| FUNDAMENTALS OF VISUAL COMMUNICATION DESIGN    | 3         |
|                                | VAD 215| COMPUTER APPLICATIONS - DESIGN                | 2         |
|                                | VAD 218| COMPUTER APPLICATIONS - ILLUSTRATION          | 2         |
|                                | VAD 245| TYPOGRAPHY                                   | 3         |
|                                | VAD 307| DRAWING FOR GRAPHIC DESIGN                   | 3         |
|                                | VAD 312| VISUAL FORM                                  | 3         |
|                                | VAD 318| GRAPHIC DESIGN FOR THREE DIMENSIONS          | 3         |
|                                | VAD 320| COMPUTER-AIDED GRAPHIC DESIGN                | 3         |
|                                | VAD 321| COMPUTER-AIDED ILLUSTRATION                  | 3         |
|                                | VAD 344| DESIGN FOR MULTIMEDIA                        | 3         |

**Minor in Visual Communication Design (VCD)**

- **VAD, VAF, VAP and/or VAR electives**: 6
- **Visual Communication Design** Sem. Hrs.: 20
  - VAD (215 or 218), 245: 5
  - VAF 104, 112: 6
  - VAD electives (300-400 level): 9

**Courses (Collapse All Courses)**

- **VAD 211**: FUNDAMENTALS OF VISUAL COMMUNICATION DESIGN
  - A course for non-majors in the basics of design for communication. Attention to page layout, typography, image, graphic style, and information delivery. Studio fee.

- **VAD 215**: COMPUTER APPLICATIONS - DESIGN
  - An introduction to page design software programs and their use in the design process. Studio fee.
  - **Prerequisite(s):** VAR 200.

- **VAD 218**: COMPUTER APPLICATIONS - ILLUSTRATION
  - An introduction to drawing and paint software programs and their use in illustration. Studio fee.
  - **Prerequisite(s):** VAR 200.

- **VAD 245**: TYPOGRAPHY
  - The study of the design, appearance and arrangement of letters and words. Attention to their importance as both functional and expressive elements in communication messages. Studio fee.
  - **Prerequisite(s):** VAD (215 or 218); VAR 200.

- **VAD 307**: DRAWING FOR GRAPHIC DESIGN
  - Exploration of materials, procedures, and drawing techniques for design presentations. Studio fee.
  - **Prerequisite(s):** VAF 104.

- **VAD 312**: VISUAL FORM
  - Investigation of the perceptual and psychological effect of the visual elements-line, shape, value, volume, texture, and color-in visual communication. Exploration of word and image relationships. Studio fee.
  - **Prerequisite(s):** VAF 216.

- **VAD 318**: GRAPHIC DESIGN FOR THREE DIMENSIONS
  - The application of graphic design principles to packaging, product, exhibition, and environmental design.
  - **Prerequisite(s):** VAD 245, 312; VAF 117.

- **VAD 320**: COMPUTER-AIDED GRAPHIC DESIGN
  - An exploration of the use of the computer as both a tool and a medium for the design and production of visual communication. Studio fee.
  - **Prerequisite(s):** VAD 215, 245.

- **VAD 321**: COMPUTER-AIDED ILLUSTRATION
  - An exploration of the use of the computer as both a tool and a medium for the creation and production of illustrations. Studio fee.
  - **Prerequisite(s):** VAD 218, 245.

- **VAD 344**: DESIGN FOR MULTIMEDIA
  - An introduction to the design process, including visual principles, aesthetic issues, and diverse applications for multimedia and interactive electronic media. Emphasis is placed on the visual organization of information in these environments. Studio fee.
Prerequisite(s): (VAD 215 or 218), 245, 312, 360) or permission of instructor.

VAD 345  TYPOGRAPHY II
The advanced study of typographic design. Attention to the aesthetic and informational qualities of type in print and electronic communication. Studio fee.  
Prerequisite(s): VAD 245.

VAD 350  DESIGN PROCESS
Focus on the developmental process of visual communication, including concept development, visualization techniques, presentation formats, and production methods. Studio fee.  
Prerequisite(s): VAD 215, 312, 245.

VAD 360  DESIGN FOR THE INTERNET
Studio course in the design of electronic communications for the Internet, and specifically the World Wide Web. The course will emphasize current technology for information delivery, with significant consideration being given to critical issues in visual communication. Studio fee.  
Prerequisite(s): VAD 215 or 218), 245, 312.

VAD 395  ADVERTISING DESIGN
Emphasis on print advertising, its creation and presentation. Concept development and attention to advertising layouts that carry motivating images and messages to consumers about products, services, or ideas. Studio fee.

VAD 411  GRAPHIC DESIGN I
Study, design, and application of marks, logos, and symbols in visual communication. Attention to effective visual relationships between typographic elements and images in single-page applications. Studio fee.  
Prerequisite(s): VAD 245, 312.

VAD 412  GRAPHIC DESIGN II
Continued study of effective visual relationships between typographic elements and images. Emphasis on sequential page design. Studio fee.  
Prerequisite(s): VAD 411 or permission of department chairperson.

VAD 414  TRADEMARK DESIGN
Advanced study of marks, logos, and symbols as communication and identification elements. Emphasis on conceiving design marks of identity for small businesses, corporations, institutions, products, and/or services. Studio fee.  
Prerequisite(s): VAD 411.

VAD 415  GRAPHIC DESIGN III
The study and design of identification and image systems for products, organizations, institutions, or corporations. Emphasis on continuity in the application of visual communication factors. Studio fee.  
Prerequisite(s): VAD 412 or permission of department chairperson.

VAD 444  DESIGN FOR MULTIMEDIA II
Advanced level design for multimedia and interactive electronic media. Emphasis is placed on actual or simulated client-based projects.  
Prerequisite(s): VAD 344.

VAD 477  HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons.  
Prerequisite(s): Approval of University Honors Program.
VNJ 478 HONORS THESIS PROJECT
Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and 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.

VNJ 480 VISUAL COMMUNICATION DESIGN INTERNSHIP
1-3 Opportunities for practical experience in professional working environments. Repeatable up to twelve semester hours.
Prerequisite(s): Permission of department chairperson.

VNJ 490 SPECIAL PROBLEMS
1-3 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.

VNJ 498 SENIOR/PROFESSIONAL SEMINAR - VCD
3 Capstone course required of all B. A. and B.F.A. visual communication design majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.
Prerequisite(s): Senior standing or permission of department chairperson.

VNJ 499 PORTFOLIO AND PAPER - VCD
1 Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation.
Prerequisite(s): VNJ 498 or permission of department chairperson.

VAE 101 EARLY CHILDHOOD ART EDUCATION
2 Acquaints students, especially those seeking Early Childhood Licensure, with the principles and concepts of art and with the various materials and techniques used in artistic expression. Open to all students. Studio fee.

VAE 231 INTRODUCTION TO ART EDUCATION
2 An introduction to the pedagogical, philosophical, and psychological aspects of teaching the arts. Topics will include: technology, national and state standards, history, learners with special needs, reading in the arts, and professional associations. Studio fee.
Prerequisite(s): EDT 110, 110L.
Corequisite(s): Field experience.

VAE 232 INTEGRATING THE ARTS: VISUAL ARTS
2 Developing knowledge, skills values and attitudes in visual arts for the purpose of integration into classrooms for middle childhood and the adolescent learner. Studio fee.
Prerequisite(s): EDT 110, 110L.

VAE 383 FOUNDATION OF ART EDUCATION
3 Introduction to the philosophy, history, and theory of teaching art to prekindergarten through grade eight students with varied needs and abilities. Art education majors only or permission. Studio fee.
Prerequisite(s): EDT 110, 110L, 207, 207L; permission of instructor and department chairperson.
Corequisite(s): Field experience.

VAE 483 TEACHING VISUAL ARTS
3 Study of curriculum, planning, theory, and practice for teaching visual arts to students grades seven through twelve. Art Education majors only. Studio fee.
Prerequisite(s): EDT 110, 110L, 207, 207L, 206; VAE 231, 383; permission of instructor and department chairperson.
Corequisite(s): EDT 305, 340, 340L, 459.
VAE 483W 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
A 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.

VAF 104 FOUNDATION DRAWING
Introduction to basic visual concepts, various drawing media, and approaches to experimental technique. Emphasis on perspective, perceptual awareness, volume in space, and expressive freedom. Studio fee.

VAF 112 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 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
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
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
Introduction to basic painting principles, techniques, and materials; still life, landscape, figure, and abstraction. Studio fee. **Prerequisite(s):** (VAF 104, 112, 216) or permission of department chairperson.

VAF 228 WATERCOLOR I
Principles and techniques of transparent watercolor. Emphasis on technical mastery. **Prerequisite(s):** (VAF 104, 112, 216) or permission of department chairperson.

VAF 232 SCULPTURE I
Consideration of forms as a means of developing an understanding of mass, shape, and control of medium. The use of various materials such as wood, plaster, and clay, with emphasis on integrating material with personal expression. Studio fee.

VAF 240 CERAMICS I
Introduction to basic methods of working in clay using coil and slab techniques. Studio fee.

VAF 242 CERAMICS II
Introduction to basic methods of working clay using the wheel. Studio fee.

VAF 253 PRINTMAKING I
Introduction to the traditional printmaking methods of woodcut and intaglio. Instruction in edition-printing techniques and curating of prints. Studio fee. **Prerequisite(s):** (VAF 104, 112) or permission of department chairperson.
VAF 304 DRAWING II
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
Painting from the model with a variety of media. Traditional and contemporary approaches to the figure. Model fee.
Prerequisite(s): (VAF 204 or 304), 226) or permission of department chairperson.

VAF 326 PAINTING II
Painting with oils or acrylics; continuing study of the principles and techniques of painting, with emphasis on personal expression and experimentation. Studio fee.
Prerequisite(s): (VAF 226 or 228) or permission of department chairperson.

VAF 328 WATERCOLOR II
Continuing investigation of watercolor techniques, both traditional and experimental. Still life, figure, landscape, and abstraction.
Prerequisite(s): VAF 228 or permission of department chairperson.

VAF 332 SCULPTURE II
Continued exploration of three-dimensional concepts and materials, concentrating on wood, stone, and metal. Studio fee.
Prerequisite(s): VAF 232 or permission of department chairperson.

VAF 342 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 242) or permission of instructor.

VAF 353 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
Attention to conceptual, visual, and technical development. Exploration of media and techniques employed by the illustrator in creating images for printed communication. Studio fee.
Prerequisite(s): VAF 104, 204.

VAF 380 ILLUSTRATION II
Interpretation and representation of concepts, products, or stories for magazines, books, newspapers, and advertising. Continued technical development with a variety of materials, media, and techniques. Studio fee.
Prerequisite(s): VAF 370.

VAF 404 DRAWING IV
Observational and expressive drawing. Continued work with the figure in combination with a variety of other subject matter. Emphasis on the development of a body of work with a related idea. Studio fee.
Prerequisite(s): (VAF 204, 304) or permission of department chairperson.

VAF 426 PAINTING III
Directed advanced studio problems; contemporary issues in painting. Repeatable up to nine semester hours. Studio fee.
Prerequisite(s): (VAF 325 or 326) or permission of department chairperson.

VAF 442 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 PRINTEVENTING III
Advanced work in printmaking processes with an emphasis on the production of multi-color editions. Studio fee.
Prerequisite(s): VAF 353.

VAF 470 ILLUSTRATION III
Focus on developing an individual point of view and illustration style. Studio Fee.
Prerequisite(s): VAF 380.

VAF 477 HONORS THESIS PROJECT
First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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 departmental chairpersons.
Prerequisite(s): Approved 477; approval of University Honors Program.

VAF 490 SPECIAL PROBLEMS
A course for advanced individual work in fine arts. Approval based on academic standing and permission of instructor. Repeatable up to fifteen semester hours.

VAF 498 SENIOR/PROFESSIONAL SEMINAR - FINE ARTS
Capstone course required of all B.A. and B.F.A. fine arts and art education (E11) majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.
Prerequisite(s): Junior standing.

VAF 499 PORTFOLIO AND PAPER - FINE ARTS
Completion and presentation of undergraduate portfolio and paper, to be reviewed by faculty and peers. Faculty approval of portfolio and paper is required for graduation. Studio fee.
Prerequisite(s): VAF 498 or permission of department chairperson.

VAH 101 INTRODUCTION TO THE VISUAL ARTS
Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

VAH 201 SURVEY OF ART I
Survey of Western art from pre-history through the late medieval period. Open to all students. Fee.

VAH 202 SURVEY OF ART II
Survey of Western art from the late medieval period through the Baroque. Open to all students. Fee.

VAH 203 SURVEY OF ART III
Survey of Western art from the eighteenth through the twentieth centuries. Open to all students. Fee.
VAH 350 WESTERN ARCHITECTURE
Introduction to the history, theory, and practice of Western architecture from pre-history through the contemporary period. Open to all students. Fee.

VAH 360 ART HISTORY AND FEMINISM
Introduction to feminist approaches to art history and women artists from the medieval period to the present. Open to all students. Fee.

VAH 370 AMERICAN ART
Introduction to American art and architecture from the colonial period to the present. Open to all students. Fee.

VAH 382 HISTORY OF PHOTOGRAPHY I
History of the cultural, social, and aesthetic roles of photography from the camera obscura to 1945. Emphasis on the changing practice and perception of the medium. Open to all students. Fee.

VAH 383 HISTORY OF VISUAL COMMUNICATION DESIGN
Study of the significant developments, movements, and figures in the history of visual communication with an emphasis on the twentieth century. Open to all students. Fee.

VAH 450 ITALIAN RENAISSANCE ART
Introduction to the painting, sculpture, and architecture of Italy between c. 1300 and c. 1550. Fee.
Prerequisite(s): VAH 202 or permission of instructor and department chairperson.

VAH 460 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 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 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 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 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 TWENTIETH-CENTURY ART I
Study of the major movements and artists in the painting, sculpture, architecture, and other media from 1900 to 1945. Open to all students. Fee.

VAH 482 HISTORY OF PHOTOGRAPHY II
The history of photography from 1945 to the present. 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 TWENTIETH-CENTURY ART II
Study of the major movements and artists in painting, sculpture, architecture, and other media from 1945 to the present. Open to all students. Fee.

VAH 485 ART HISTORY SEMINAR
A seminar and capstone reading and research course concentrating on one art historical topic for detailed analysis. May be repeated as topics change. 
Prerequisite(s): Permission of instructor.

VAH 490 SPECIAL PROBLEMS
Advanced, independent study with faculty direction in art history. 
Prerequisite(s): One art history course or permission of instructor and department chairperson.

VAP 101 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
A 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
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
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, 240) or permission of department chairperson.

VAP 320 STUDIO PRACTICE I
Extensive use of large format camera, studio grip equipment, tungsten and electronic flash lighting techniques; still-life and portrait photography in a studio environment. Studio fee. 
Prerequisite(s): VAP 201.

VAP 321 STUDIO PRACTICE II
Emphasis on the production of a professional-quality portfolio which will demonstrate advanced knowledge of the studio and image production. Studio fee. 
Prerequisite(s): VAP 320.

VAP 330 ALTERNATIVE PHOTOGRAPHY I
Introduction to specialized image production utilizing silver and non-silver photographic processes. Emphasis on technical and aesthetic aspects of alternative photographic practice. Studio fee. 
Prerequisite(s): VAP 101.

VAP 331 ALTERNATIVE PHOTOGRAPHY II
Continuing work with alternative silver and non-silver processes. Emphasis on completion of an artist book or installation which demonstrates advanced technical command and aesthetic understanding of the processes employed. Studio fee.

Prerequisite(s): VAP 330.

VAP 340 DIGITAL 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
Extensive experience with the view camera, examination of refined techniques, various applications, and concepts of large format photography. Studio fee.

Prerequisite(s): VAP 201.

VAP 402 COLOR PHOTOGRAPHY II
A continuation of color printing from negatives; completion of individual projects which will demonstrate an advanced understanding of the techniques and aesthetics peculiar to color photography. Studio fee.

Prerequisite(s): VAP 302.

VAP 410 ADVANCED PHOTOGRAPHY
Students with a substantial commitment to photography and with demonstrated technical skills work on individual projects and participate in group critiques and discussions. Studio fee.

Prerequisite(s): VAP 382 or 482; VAP 201, 302.

VAP 420 PHOTOJOURNALISM
A variety of ways of using photography as documentation, narrative, and propaganda. Editing of work, layout, and image-text relationships. Personal photographic essay required. Studio fee.

Prerequisite(s): VAP 201.

VAP 430 PROFESSIONAL PHOTOGRAPHIC APPLICATIONS
Problem-solving associated with professional photography; may include commercial, editorial, industrial, architectural, and illustrative photographic work both in the studio and on location. Studio fee.

Prerequisite(s): VAP 320 or permission of department chairperson.

VAP 450 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 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 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.

**VAP 490** SPECIAL PROBLEMS IN PHOTOGRAPHY

Series of assignments to guide independent study in photography, formulated to meet individual needs of the student. Studio fee.

**Prerequisite(s):** VAP 201; permission of department chairperson.

**VAP 498** SENIOR/PROFESSIONAL SEMINAR - PHOTOGRAPHY

Capstone course required of all B.A. and B.F.A. photography majors, to be taken in the first semester of the senior year. Examination of aesthetic, cultural, ethical, and pragmatic issues in preparation for post-graduate experience. Studio fee.

**Prerequisite(s):** (VAP 410; senior standing) or permission of department chairperson.

**VAP 499** 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.

**VAR 100** VISUAL ARTS FOUNDATION

Defines and examines the process of beginning a program of education in the visual arts within the larger context of the College of Arts and Sciences and the University. Integrates pragmatic and conceptual issues critical to liberal learning for visual arts students.

**VAR 200** INTRODUCTION TO VISUAL ARTS COMPUTING

An introduction to the computer as a tool, and the computer lab as an environment, for visual art production.

**VAR 210** VISUAL JOURNAL

Students document and interpret their experience of a given site through the creation of unique journals. They create, collect, edit, and juxtapose visual materials in combination with written commentary and reflections. Studio fee.

**VAR 220** VISUAL RESOURCES

Students study a wide variety of visual elements, including many forms of visual communication as well as architecture, public spaces, and museums, in order to understand ways in which art and design play key roles in defining the unique cultural environment of a given site. Studio fee.

**VAR 299** SECOND YEAR REVIEW

Requires successful completion of Visual Arts Second Year Review. Eligibility for the review is determined by the department and is based upon a student's progress within the major. Visual Arts Scholarship recipients complete this course during their second year in the major. The review is based upon prior Visual Arts coursework completed and in progress at the time of the review. Required for all Visual Arts majors.

**VAR 345** 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** COMPUTER MODELING AND ANIMATION II

Detailed study of spline-based modeling, surface rendering and mapping, editing complex animation sequences, motion control, and other topics. Studio fee.

**Prerequisite(s):** VAR 345.

**VAR 445** COMPUTER MODELING AND ANIMATION III
Individual projects in conceptualization and production of animated sequence from storyboard to final presentation. Studio fee.

**VAR 440**  
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 477**  
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.

**VAR 490**  
Special Problems

Advanced, independent study with faculty direction in a visual arts subject or topic that is not covered in existing, discipline-specific courses. Permission. Studio fee.

**VAR 495**  
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, 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.
College of Arts and Sciences
Women's and Gender Studies (Collapse Description)

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; and 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, 310 or 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 (Rosch Library), DesAutels (Philosophy), Fleischmann (History), Hudson (Political Science), Johnson (Philosophy), Laming (Sociology, Anthropology, and Social Work), Martin (Religious Studies), Merithew (History), Pestello (Sociology, Anthropology, and Social Work), Potter (English), Ramnarayan (English), Renzelli (Sociology, Anthropology, and Social Work), Rontler (Women's Center), Watters (Communication)

Majors/Minors (Collapse All)

Major/Minor Name
Bachelor of Arts with a major in Women's and Gender Studies (WGS)

Women's and Gender Studies 34-36

WGS (1501 or 3502), 310, 390, 490 10-12
First area courses 9

Select nine semester hours from one area
Second area courses
Select six semester hours from one area

Third area courses
Select six semester hours from one area

Fourth Area Courses\(^3\)
Select three semester hours from one area

Areas\(^4\)

Literature and Arts
CMS 415
ENG 333, 335, 336, 345
VAH 360

History
HST 347, 350, 351, 352, 353, 354, 356

Philosophy and Religious Studies
PHL 307, 364
REL 471, 472, 474

Social Sciences\(^3\)
ANT 306
HSS 325
POL 340
PSY 443, 462
SOC 322, 330, 331, 332, 333, 339, 355, 432
SWK 327, 330
UDI 341

Cultural Diversity Requirement\(^5\)

U.S./Europe Multicultural option
ENG 335
HST 351, 353
PHL 364
SOC 432

Global (non-U.S./Europe) option
ANT 306
ENG 345
HST 354, 356
POL 340
REL 471, 474

Liberal Studies Curriculum

Humanities and Fine Arts

Philosophy and Religious Studies 12
History 6

Literature: English or Foreign Language 3
Creative and Performing Arts 3

Foreign Language and/or Additional Arts and/or Humanities 3-9

Social Sciences 12
Mathematics (excludes MTH 102, 204, 205) 3
Natural Sciences 11

Communication Competencies 0-9
Introduction to the University: ASI 150 0-1

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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 150</td>
<td>INTRODUCTION TO WOMEN'S AND GENDER STUDIES</td>
<td>3</td>
</tr>
<tr>
<td>WGS 310</td>
<td>FEMINIST THEORY AND METHODOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>WGS 350</td>
<td>FEMINIST SOCIAL CHANGE</td>
<td>3</td>
</tr>
<tr>
<td>WGS 380</td>
<td>SPECIAL TOPICS IN WOMEN'S AND GENDER STUDIES</td>
<td>3</td>
</tr>
<tr>
<td>WGS 390</td>
<td>SERVICE-LEARNING IN WOMEN'S AND GENDER STUDIES</td>
<td>3</td>
</tr>
</tbody>
</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, 310, 350) and three upper-level courses from three different disciplines.
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 310 or 350; permission of program director.

**WGS 477 HONORS THESIS PROJECT**

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and departmental chairperson. Students pursuing an interdisciplinary thesis topic may register for 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 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 477 and approval of University Honors Program.

**WGS 480 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 310 or 350; approval of program director.

**WGS 490 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 350, 310.