1982

1982-1984 Xavier University College of Arts and Sciences, College of Business Administration, Edgecliff College, College of Continuing Education, Graduate School Course Catalog

Xavier University, Cincinnati, OH

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Telephone: (513) 745-3000

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Dean of Admissions

Alumni affairs:
Director of Alumni Relations

Bulletins and catalogues (undergraduate):
Dean of Admissions

Bulletins and catalogues (graduate):
Dean of the Graduate School

College of Continuing Education:
Dean of the College of Continuing Education

Counseling Services:
Director of Counseling Services

For part-time and after graduation placement:
Director of Placement

Freshman interests:
The Associate Dean, College of Arts and Sciences,
or the Associate Dean, College of Business
Administration

Graduate study:
Dean of the Graduate School

Honors Course:
Director of the Honors Course

Housing on campus:
Director of Residence Life

Housing on campus (new students):
Admissions Office

Refunds:
The Bursar

Reservation fees:
Dean of Admissions

Schedule of campus events:
Director of Public Information

Scholars' Program:
Director of Scholars' Program

Student health:
Director of Student Health Service

Summer Sessions information:
Dean of Summer Sessions

Teachers' certification requirements:
Chairman of the Department of Education

Transcripts and certificates of honorable dismissal:
The University Registrar

Tuition and payment of bills:
The Bursar

Veterans' education:
Director of Veterans' Educational Benefits
Xavier University
Coeducational
Cincinnati's Jesuit University

Catalogue 1982-1984

College of Arts and Sciences
College of Business Administration
Edgecliff College
College of Continuing Education
The Graduate School

Victory Parkway, Cincinnati, Ohio (513) 745-3000
Studying the stoney stare of Xavier's musketeer, D'Artagnon, one coed enjoys the quiet, cool September weather.
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**UNIVERSITY CALENDAR 1982-1983**

Note: The calendar dates shown may be altered due to new academic and administrative policies and procedures approved after the university catalogue was published. The official semester Schedule of Classes Bulletin should be consulted for final dates established for a specific semester.

### Fall Semester, 1982

<table>
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<tr>
<th>Date(s)</th>
<th>Event Description</th>
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<tr>
<td>Aug. 16, Monday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>through Aug. 20, Friday</td>
<td></td>
</tr>
<tr>
<td>Aug. 27, Friday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
</tr>
<tr>
<td>and Aug. 28, Saturday</td>
<td></td>
</tr>
<tr>
<td>Aug. 30, Monday</td>
<td>Registration, all undergraduate colleges and Graduate School.</td>
</tr>
<tr>
<td>and Aug. 31, Tuesday</td>
<td></td>
</tr>
<tr>
<td>Sept. 1, Wednesday</td>
<td>Classes begin, all divisions.</td>
</tr>
<tr>
<td>Sept. 6, Monday</td>
<td>Labor Day, holiday, all divisions.</td>
</tr>
<tr>
<td>Sept. 9, Thursday</td>
<td>Last day for late registration or changes in registration in the undergraduate colleges except for the College of Continuing Education.</td>
</tr>
<tr>
<td>Oct. 8, Friday</td>
<td>Autumn holiday; day divisions. College of Continuing Education and Graduate School classes meet, 4:00 P.M. and after.</td>
</tr>
<tr>
<td>Oct. 16, Saturday</td>
<td>Graduate School Foreign Language Examinations and FORTRAN Examination, 2:00 P.M.</td>
</tr>
<tr>
<td>Oct. 25, Monday</td>
<td>Final deadline for reporting mid-semester grades in all undergraduate colleges.</td>
</tr>
<tr>
<td>Nov. 15, Monday</td>
<td>Final date for withdrawal without failure from full-term courses, undergraduate colleges only.</td>
</tr>
<tr>
<td>Nov. 24, Wednesday</td>
<td>Thanksgiving Vacation begins - holiday, all divisions.</td>
</tr>
<tr>
<td>Nov. 29, Monday</td>
<td>Classes resume, all divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>Nov. 29, Monday through Dec. 3, Friday</td>
<td>Preregistration, undergraduate day colleges. Early registration, College of Continuing Education.</td>
</tr>
<tr>
<td>Dec. 1, Wednesday through Dec. 7, Tuesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
<tr>
<td>Dec. 3, Friday</td>
<td>Final date for submission of theses for December graduates, undergraduate colleges.</td>
</tr>
<tr>
<td>Dec. 4, Saturday</td>
<td>Senior Comprehensive Examinations, undergraduate colleges. M.Ed. Comprehensive Examinations, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>Dec. 13, Monday through Dec. 18, Saturday</td>
<td>Semester Examinations, all divisions.</td>
</tr>
<tr>
<td>Date(s)</td>
<td>Event</td>
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<tr>
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</tr>
<tr>
<td>Dec. 18, Saturday</td>
<td>Christmas Vacation begins after last examination. End of Fall Semester, all divisions.</td>
</tr>
<tr>
<td>Jan. 3, Monday through Jan. 5, Wednesday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>Jan. 7, Friday and Jan. 8, Saturday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
</tr>
<tr>
<td>Jan. 10, Monday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
</tr>
<tr>
<td>Jan. 11, Tuesday and Jan. 12, Wednesday</td>
<td>Registration, all undergraduate colleges and Graduate School.</td>
</tr>
<tr>
<td>Jan. 13, Thursday</td>
<td>Classes begin, all divisions.</td>
</tr>
<tr>
<td>Jan. 21, Friday</td>
<td>Last day for late registration or changes in registration in the undergraduate colleges except for the College of Continuing Education.</td>
</tr>
<tr>
<td>March 7, Monday</td>
<td>Final deadline for reporting mid-semester grades in all undergraduate colleges.</td>
</tr>
<tr>
<td>March 7, Monday through March 11, Friday</td>
<td>Spring Vacation, all divisions.</td>
</tr>
<tr>
<td>March 12, Saturday</td>
<td>All Saturday classes meet.</td>
</tr>
<tr>
<td>March 19, Saturday</td>
<td>Graduate School Foreign Language Examinations and FORTRAN Examination, 2:00 P.M.</td>
</tr>
<tr>
<td>March 23, Wednesday through March 29, Tuesday</td>
<td>Preregistration, undergraduate day colleges. Early registration, College of Continuing Education.</td>
</tr>
<tr>
<td>March 31, Thursday</td>
<td>Easter Vacation begins—a holiday, all divisions.</td>
</tr>
<tr>
<td>April 4, Monday</td>
<td>Holiday, undergraduate divisions. Graduate level courses resume at 4:00 P.M.</td>
</tr>
<tr>
<td>April 5, Tuesday</td>
<td>Classes resume, undergraduate divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>April 5, Tuesday</td>
<td>Final date for withdrawal without failure from full-term courses, undergraduate colleges only.</td>
</tr>
<tr>
<td>April 15, Friday</td>
<td>Final date for submission of senior theses, May graduates.</td>
</tr>
<tr>
<td>April 16, Saturday</td>
<td>Senior Comprehensive Examinations.</td>
</tr>
<tr>
<td>April 18, Monday</td>
<td>Honors Convocation, 1:30 P.M.</td>
</tr>
<tr>
<td>April 21, Thursday through April 27, Wednesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
</tbody>
</table>

**Spring Semester, 1983**
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 23, Saturday</td>
<td>M. Ed. Comprehensive Examination, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>April 29, Friday</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
</tr>
<tr>
<td>May 2, Monday</td>
<td>Semester Examinations, undergraduate colleges, except the College of Continuing Education.</td>
</tr>
<tr>
<td>May 6, Friday</td>
<td>End of Spring Semester after last examination, all divisions.</td>
</tr>
<tr>
<td>May 14, Saturday</td>
<td>Commencement Exercises, all undergraduate colleges.</td>
</tr>
<tr>
<td>May 16, Monday</td>
<td>Commencement Exercises, Graduate School.</td>
</tr>
<tr>
<td>May 16, Monday</td>
<td>See Summer School bulletin for details.</td>
</tr>
<tr>
<td>Aug. 19, Friday</td>
<td></td>
</tr>
</tbody>
</table>

**Summer Sessions, 1983**

As the Associate Dean of the College of Arts and Sciences, Father Kennealy devotes many of his hours to counseling students on their academic careers, planning studies-abroad programs, examining scholarship programs, and evaluating advanced placement. He is never too busy to take time for a friendly chat amidst his hectic schedule.
### UNIVERSITY CALENDAR 1983-1984
#### Fall Semester, 1983

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 15, Monday through Aug. 19, Friday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>Aug. 26, Friday and Aug. 27, Saturday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
</tr>
<tr>
<td>Aug. 29, Monday and Aug. 30, Tuesday</td>
<td>Registration, all undergraduate colleges and Graduate School.</td>
</tr>
<tr>
<td>Aug. 31, Wednesday</td>
<td>Classes begin, all divisions.</td>
</tr>
<tr>
<td>Sept. 5, Monday</td>
<td>Labor Day, holiday, all divisions.</td>
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<tr>
<td>Nov. 28, Monday</td>
<td>Classes resume, all divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>Nov. 28, Monday through Dec. 2, Friday</td>
<td>Preregistration, undergraduate day colleges. Early registration, College of Continuing Education.</td>
</tr>
<tr>
<td>Nov. 30, Wednesday through Dec. 6, Tuesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
<tr>
<td>Dec. 2, Friday</td>
<td>Final date for submission of theses for December graduates, undergraduate colleges.</td>
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<tr>
<td>Dec. 3, Saturday</td>
<td>Senior Comprehensive Examinations, undergraduate colleges. M. Ed. Comprehensive Examinations, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>Dec. 12, Monday through Dec. 17, Saturday</td>
<td>Semester Examinations, all divisions.</td>
</tr>
<tr>
<td>Dec. 17, Saturday</td>
<td>Christmas vacation begins after last examination. End of Fall Semester, all divisions.</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
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<td>-----------</td>
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</tr>
<tr>
<td>Jan. 2, Monday through Jan. 4, Wednesday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>Jan. 6, Friday and Jan. 7, Saturday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
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<tr>
<td>Jan. 8, Sunday</td>
<td>Registration, College of Continuing Education.</td>
</tr>
<tr>
<td>Jan. 9, Monday</td>
<td>Registration, College of Continuing Education and Graduate School.</td>
</tr>
<tr>
<td>Jan. 10, Tuesday and Jan. 11, Wednesday</td>
<td>Registration, all undergraduate colleges and Graduate School.</td>
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<tr>
<td>Jan. 12, Thursday</td>
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<td>Jan. 20, Friday</td>
<td>Last day for late registration or changes in registration in the undergraduate colleges except the College of Continuing Education.</td>
</tr>
<tr>
<td>March 5, Monday</td>
<td>Final deadline for mid-semester grades in all undergraduate colleges.</td>
</tr>
<tr>
<td>March 12, Monday through March 16, Friday</td>
<td>Spring Vacation, all divisions.</td>
</tr>
<tr>
<td>March 17, Saturday</td>
<td>All Saturday classes meet.</td>
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<td>Graduate School Foreign Language Examinations and FORTRAN Examinations, 2:00 P.M.</td>
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<tr>
<td>April 2, Monday</td>
<td>Final date for withdrawal without failure from full-term courses, undergraduate colleges only.</td>
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<tr>
<td>April 12, Thursday through April 18, Wednesday</td>
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<tr>
<td>Date Range</td>
<td>Event Description</td>
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</tr>
<tr>
<td>April 27, Friday</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
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<tr>
<td>through May 3, Thursday</td>
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</tr>
<tr>
<td>April 30, Monday</td>
<td>Semester Examinations, undergraduate colleges except the College of Continuing Education.</td>
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<tr>
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<td>May 14, Monday</td>
<td>Commencement Exercises, Graduate School.</td>
</tr>
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**Summer Sessions, 1984**

<table>
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<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 14, Monday</td>
<td>See Summer School bulletin for details.</td>
</tr>
<tr>
<td>through Aug. 17, Friday</td>
<td></td>
</tr>
</tbody>
</table>
The University

History

Xavier University was established in 1831 when the first bishop of Cincinnati, Edward Fenwick, raised a two story building near the Cathedral in downtown Cincinnati and opened its doors to educate seminarians and other young men in the Ohio area. This institute of arts and sciences was the first Catholic institution of higher learning in the entire Northwest Territory. The original name of the college was The Athenaeum, but it was dedicated from the beginning to the patronage of St. Francis Xavier.

At first, the college was administered by the bishop and his diocesan priests, but as it grew it began to require professional academic leadership. In 1940 Father Roothan, the Jesuit General, responded to the bishop’s request and appointed three Jesuit priests, two brothers, and two scholastics to assume the leadership of the college. Its name was changed to St. Xavier College in honor of the Jesuit educator under whose patronage the college was originally placed.

It was during these first few years as a Jesuit institution that Xavier began to take on the unique character and special role that it fulfills today. For example, a mercantile program was added to the curriculum in 1940 because the Jesuit educators recognized the need to supplement the traditional humanities education with a sound business program. Today, the University is recognized for its development of an excellent College of Business Administration, established in 1961, which, together with the other undergraduate colleges—the College of Arts and Sciences, the College of Continuing Education, and the Edgecliff College—provides students with a broad-based learning experience. In 1841, Xavier offered its first night courses, beginning a tradition of serving the unique needs and schedules of professionals in the Cincinnati community, a tradition it proudly continues today.

St. Xavier College moved to its present location in the geographic center of the city in 1919, when its growth and development called for new and larger facilities. To reflect that growth and development, the name was changed to Xavier University in 1930. Since that time, the University has become coeducational (1970) and has implemented a host of new academic programs, facilities, community projects and students services.

A recent historical development at Xavier was the addition on July 1, 1980 of a second campus and fourth college, Edgecliff College. Founded in 1935 by the Sisters of Mercy as a women’s liberal arts college, Edgecliff brings with it forty-five years of dedication to academic excellence. The acquisition of this 20-acre institution 2.5 miles from the Xavier campus blends two strong traditions and, along with property recently donated by U.S. Shoe Corporation, brings Xavier’s total area to approximately 100 acres.

Objectives

The primary goal of Xavier University is to help its students develop and equip themselves for a mature, intelligent, and richly human response to contemporary life. Xavier attempts this task by providing an excellent academic curriculum, a student life with rich opportunity and variety, and a commitment to human and spiritual values.

Xavier’s undergraduate curriculum is characterized by a delicate balance between variety and an intense concentration in special areas of knowledge. The student who pursues the bachelor’s degree at Xavier will be challenged by an in-depth study of his particular area of concentration, such as English, marketing or physics. But his education will also include a significant number of courses in other areas, such as literature, philosophy, theology, and the sciences.

Maturation and growth also require pursuing one’s interests and developing one’s talents outside the academic sphere. Xavier is proud of its rich student life, which includes over 60 student activities and organizations covering a wide range of areas: politics, the performing arts, athletics, and social life, to name a few.
The University

Although the academic curriculum and student life reflect considerable diversity, there is a commitment to human and spiritual values that gives unity to the Xavier experience and underpins everything the University works to accomplish. The faculty and administration at Xavier aim to develop graduates who demonstrate intelligence and competency, but they also strive to foster concern for others and dedication to Christian ideals. Students are prepared not only for further intellectual endeavors and successful performance in a career field, but also for a more meaningful and mature experience of life itself.

College of Arts and Sciences

The College of Arts and Sciences, Xavier's largest and oldest undergraduate college, offers its students all the advantages of a quality liberal education. This type of education, which has always been the core of the Jesuit university, is called liberal because it liberates the human mind from a consideration of solely immediate concerns. It frees the individual to explore the amazingly diverse achievements of man while developing and expanding his own vast potential as a human person.

It is the conviction that man possesses the unusual and distinctively human powers to think, to reflect on his experiences, to feel human emotions, and to make moral judgements that has upheld the general study of the arts and sciences from the days of ancient Greece to our own day. This type of education, which helps the student become a generalist who can understand all the components of a problem and how each component relates to the whole, is most valuable in a society such as ours which is characterized by rapid change and explosive expansion of human knowledge.

The student who has achieved an overview of the diverse branches of knowledge in addition to a more detailed understanding of a particular area is well equipped to adapt to new modes of thinking and operating. Specific areas of expertise will become more and less valuable with the passage of time, but the person who can adapt and learn quickly will be forever valuable in any career field. The ability to communicate effectively in oral and written form, another quality prized in any area of work, is also given a primary emphasis by the deans and faculty of the College of Arts and Sciences.

Edgecliff College

Edgecliff College, with its established departments and programs of art, consumer science, criminal justice, music, nursing, social work, and theatre arts, became a vital part of the University in 1980. Located also on the Edgecliff campus is the Master's program in Public Administration. Edgecliff has always emphasized a strong liberal arts core in conjunction with preparation for work or further study. Many Edgecliff College majors look to Xavier's main campus for their upper division courses. In turn, the main campus relies on the strengths of Edgecliff to balance and enhance the educational experience Xavier University offers all of its undergraduate students.

A Mortuary Science program is available in cooperation with the Cincinnati College of Mortuary Science. For information write to the Dean of Edgecliff College of Xavier University, the Director of Admissions, or the Director of the Cincinnati College of Mortuary Science.

College of Business Administration

After operating its business departments for many years as a part of the College of Arts and Sciences, the University established the College of Business Administration on September 1, 1961.

The College of Business Administration conforms to the general principles and objectives of the University in particular, and of Jesuit education in general. It recognizes the indispensability of cultural subjects which motivate the higher powers of the mind and spell the difference between an educated man and a mere technician.
The objectives, therefore, of the College of Business Administration are threefold: (1) To develop the cultural, intellectual, and the moral qualities of the student; (2) To provide a solid undergraduate base for those students who wish to continue study at the graduate level; (3) To prepare that student in the area of business so that he may be more qualified to accept a position of responsibility and leadership in the business community.

College of Continuing Education

The purpose of the College of Continuing Education is to aid adults in obtaining a more advanced education by means of courses of cultural and practical value. The college renders particular service to those who wish to carry college work toward a degree while working during the day and those who wish to pursue subjects which will better fit them for special services or careers.

Degree programs in liberal arts, business, technical, and vocational areas are offered. All courses are open to men and women. Besides the individual course offerings, there are groupings and programs of courses leading to degrees. Special mention is made of the Bachelor of Science degree in Nuclear Medical Technology, which is offered in cooperation with two Dayton, Ohio hospitals. An associate degree is also offered in this career-oriented program.

The College also offers the Bachelor of Science in Business Administration degree and the Bachelor of General Studies (BGS). The BGS is a nonmajor degree program for the mature student of multi-interests and is limited to individuals 22 years of age or older.

The College of Continuing Education offers two-year associate degree programs in a number of fields. Students should consult the special publications of the College for information about these two-year associate degree programs. Special note is made about the Associate Degree Program in Radiologic Technology which the College offers in conjunction with various local hospitals in the Greater Cincinnati area.

The Graduate School

Since 1946 the Graduate School has offered programs leading to graduate degrees. Degrees conferred are the Master of Arts, the Master of Science, the Master of Education, the Master of Business Administration, and the Master of Hospital and Health Administration. Information about the Graduate School follows the undergraduate section of this catalogue.

Accreditation

The University is accredited by the North Central Association of Colleges and Secondary Schools as a degree-granting institution and is approved by the Department of Education of the State of Ohio and by the Board of Regents of the University of the State of New York. It is also approved by the American Chemical Society for its training in chemistry, by the National League for Nursing for its nursing degree completion program, and by the Council on Social Work Education for its undergraduate social work program.

The Graduate Program in Hospital and Health Administration is accredited by the Accrediting Commission on Education for Health Services Administration.

Institutional Memberships

The University maintains membership in these educational and learned organizations: Association of Jesuit Colleges and Universities; National Association of Independent Colleges and Universities; The National Catholic Educational Association; The North Central Association of Colleges and Secondary Schools; The North Central Conference of Summer Sessions; The North American Association of Summer Sessions; The American Council on Education; The National Education Association; The Council of Graduate Schools; Association for Continuing Higher Education; The Council for Advancement and Support of Educa-
The University

The University of Cincinnati; The American Catholic Philosophical Association; The American Catholic Historical Society of Philadelphia; The American Historical Association; The United States Catholic Historical Society; The Mississippi Valley Historical Association; The Catholic Library Association; The American Library Association; The American Association of Collegiate Registrars; The Association of Ohio College Registrars; The National Association of Student Personnel Administrators; The American Mathematical Society; The Association of College Unions—International; The National Association of College and University Food Services; The National Association of College Stores; The United States Field Artillery Association; The American Political Science Association; The American Association of Collegiate Schools of Business Assembly; The Association of University Programs in Health Administration; The National Association of Women Deans and Counselors; The Association of Independent Colleges and Universities of Ohio; The Institute of International Education; College and University Personnel Association; Ohio Biological Survey. American Art Therapy Association; National Art Education Association; Council on Social Work; National League for Nursing.

Buildings and Facilities

Main Campus

Location

Xavier University is conveniently located at Dana Avenue and Victory Parkway in a residential area ten minutes from the heart of Cincinnati, a metropolitan center with a population of over 1,500,000 people.

Alter Hall

Alter Hall, the main classroom building on the Xavier Campus, is the center for academic affairs. WVXU-FM, "the voice of Xavier," a non-commercial educational radio station and a training facility for students with interest in professional broadcasting, is also located in Alter Hall. The station broadcasts on a frequency of 91.7 mhz. with an ERP of 6400 watts.

Bellarmine Chapel

(See Campus Ministry.)

University Center

The University Center houses the following: President's Office, Student Development Offices, Career Planning and Placement Office, Post Office, Student Senate Offices, Bookstore, Main Dining Room, Musketeer Inn, Theatre, Games Room, and various meeting rooms.

Library

The McDonald Memorial Library, on Xavier's main campus, is a modern building with open stacks allowing users free access to most library materials. The collection numbers over 250,000 volumes of books and periodicals and over 250,000 pieces of microform. The library receives more than 1,500 periodical subscriptions. In addition, over 2,500 recordings, both musical and spoken word, are available in a listening area. Special collections include incunabula, rare books, manuscripts of literary and historical figures, and the University Archives.

The Brennan Library, on the University's Edgecliff campus, houses a collection which particularly supports Edgecliff programs. Volumes number over 80,000. There is also a listening area.

Xavier students and faculty have access to certain other library collections in the Cincinnati Library Consortium. In addition, interlibrary loan services allow access to titles not available locally.
The Paul L. O'Connor, S.J., Sports Center

The Rev. Paul L. O'Connor, S.J., Sports Center opened in 1977 and is located between the Fieldhouse and Victory Parkway. Three departments are located in the facility: the Intramural Department, the Director of the Sports Center, and the Intercollegiate Department.

The first floor has two classrooms for the Physical Education Department. A swimming pool, locker/shower rooms, and a gymnasium with three cross courts, one main court, and two volleyball courts are also located on the first floor.

The second floor has four handball/racquetball courts, a weight area with a Universal weight machine, the Dolly Cohen Lounge, and a multipurpose room.

College of Business Administration Building

Completed in the Spring of 1981, the new College of Business Administration Building provides modern offices as well as seminar and lecture rooms. The entire building, including its new computer terminal center, will be used by undergraduate and graduate students in business administration.

Fieldhouse

Contained in the Schmidt Memorial Fieldhouse are the Athletic, the Band, and the Physical Education Departments. The varsity men's and women's home basketball and volleyball games are played in this facility, which seats 4,000 spectators.

Student Housing

Brockman Hall, Husman Hall, Kuhlman Hall, Rattermann House, and Marion Residence are equipped to accommodate full-time students. Residence hall costs are listed under Fees.

Unmarried, undergraduate students 23 years old or younger, whose home address is located beyond a 35 mile radius from Xavier, must live on campus. Exceptions to this regulation are granted by the Director of Residence Life.

Cincinnati area students are invited to live in a residence hall as room is available.

Brockman Hall

Brockman Hall also houses the Xavier Television studios and classrooms.

Laboratories

The Department of Biology, occupying Albers hall, is well-equipped for teaching undergraduate students the biological sciences. General laboratories are outfitted with compound and stereoscopic microscopes, ample slides and specimens, and fresh- and sea-water aquaria. Other laboratories are maintained for study in anatomy and development, behavior and physiology, plant biology, genetics, bacteriology, and ecology.

The Department has assembled abundant visual aids—models, vertebrate and invertebrate museum specimens, a variety of projectors, and its own library of motion pictures and kodachrome slides. Modern laboratory instrumentation is used in appropriate courses and includes oscilloscopes, stimulators, electroencephalographs, polygraphs, activity recorders, environmental growth chambers, Warburg apparatus, and spectrophotometers.

The Department of Physics has one large general physics laboratory, a newly-designed laboratory for advanced physics at the junior level, a newly-equipped atomic-nuclear physics laboratory for seniors, an optics laboratory, an analog computer laboratory, and a complete machine shop.

The seismology research laboratory at present uses some of the facilities of the physics laboratories in addition to office, library, and darkroom in Fisher Lodge. For the purpose of advancing the science of seismology, Xavier University maintains a first-class station and
The University

observatory on a farm approximately sixteen miles east of the University. The station is
equipped with three Benioff short-period seismographs that are kept in continuous
operation. In addition, an instrument vault situated in the basement of the Schmidt Building
serves experimental purposes.

The Department of Chemistry is located in Logan Building. Facilities include two large
laboratories for General Chemistry, one large laboratory for Organic Chemistry, two labora-
tories for Physical Chemistry, a large research laboratory and several small research
laboratories. In addition five small rooms house special equipment which is used by more
than one course. The department has an N.M.R. Spectrometer, a Mass Spectrograph, a
Polarographan, Emission Spectrograph, several Gas Chromatographs, a High Pressure Liquid
Chromatograph, a Differential Scanning Calorimeter, and a variety of lesser instruments to
give the students experience with a large number of different laboratory techniques at the
undergraduate and graduate levels.

The psychology laboratory is equipped to do simple investigations in the areas of sensa-
tion, perception, learning, and motivation. The methods employed can range from physiolo-
gical through behavioral to investigate both animals and men.

The Statistical Laboratory of the Department of Psychology is located on the third floor of
Elet Hall. Rotary and programmable calculators and an assistant are available to aid students
from throughout the University in performing mathematical and statistical computations.

Computer Center and Services

The University Computer Center, located in the Walter Seton Schmidt Building, provides
a complete range of services connected with the analysis and processing of data by means of
computers. These services, available to all branches of the University, may be catagorized as
services meeting University needs in the areas of education, research and administration.

The University has two computing systems to serve Xavier students, faculty, and admis-
istration. A Director for Academic Computing, a Senior Consultant, and several student
consultants are available to help users. No charges are made for these services.

Batch mode computing is handled by an IBM 4341 with 4 megabytes of memory. This
machine, dedicated to administrative use, supports a broad range of functions.

Time sharing computing is accomplished with a DEC VAX-11/780 with 3 megabytes of
memory. This computer, used exclusively for instructional purposes, supports the BASIC,
COBOL, FORTRAN, PASCAL, and VAX-assembler languages. Over sixty lines are available to
students, with three dozen of these lines accessible in two Academic Computing Labora-
tories (Schmidt 303 and CBA 21), open a total of more than ninety hours each week.
Peripheral devices include video tubes, hard copy terminals and printers, plotters, and
color graphics terminals. An extensive library of programs, including statistical packages, is
maintained for general use.

Lodge Learning Laboratory

The Lodge Learning Laboratory, located on the second floor of Schmidt Hall, is a
resource center available to assist students in producing instructional materials and to pro-
vide instruction in operation and classroom use of equipment. It serves primarily the stu-
dents in the various educational certification programs of the University.

Counseling Center

The Center, located in Sycamore House, provides psychological services for students of
Xavier University. It is equipped to handle behavioral problems in a variety of areas such as
the choice of studies, of a school, or of an occupation; measurement of aptitudes, interests,
abilities, etc.; failures in school or at work; difficulties in reading, and unsatisfactory patterns
of living. Psychological testing and vocational guidance, psychiatric evaluation, counseling,
and psychotherapy are the fundamental services of the Center. Undergraduate full-time stu-
dents are provided the testing, counseling, and vocational guidance services free of charge.
Art Gallery

*The Fine Arts Gallery*, located in the Carriage House of Marion Hall, is intended to be a living facility—one that will present works of art available to the University through loans, gifts, and traveling exhibitions. It was opened in the summer of 1966.

Bookstore

The Xavier Bookstore is in the University Center Building. In addition to all required books and supplies, the Bookstore carries a selection of paperbacks, as well as toilet articles, gift items, and specialty clothing with the XU insignia. Special orders for books not in stock may be placed through the Bookstore.

St. Barbara Hall

ROTC offices are located in St. Barbara Hall on Winding Way. ROTC is open to both men and women students.

Pied Piper

The *Pied Piper*, a university-owned neighborhood house, is run by students for students. Working in conjunction with Campus Ministry, the students who live here initiate programs to complement dorm and academic life. The *Piper Coffeehouse* features both professional performers and campus talent. The *Piper’s* weekly liturgies provide an opportunity for students to worship together and to experience a sense of community in an informal atmosphere.

U.S. Shoe Facility

Valued at $6 million, the recently donated U.S. Shoe property is the largest gift in University history. The 18-acre complex, which includes 140,000 square feet of air-conditioned, carpeted office space, 260,000 square feet of warehouse, and parking for 800 cars, is presently unassigned but provides opportunities for considerable growth.

Campus Parking

All cars on campus must carry a currently valid Xavier University parking permit. Student parking is available on the main campus in the North Campus Parking Lot accessible from Herald Avenue next to Husman Hall. All resident students are permitted cars provided they are registered. Visitors to the main campus may utilize the parking facilities along University Drive and in the Brockman Parking area. These areas are reached through the main gate of Xavier from Dana Avenue just east of Victory Parkway. Security personnel will issue visitors a temporary parking pass.

**Edgecliff Campus**

Location

The Edgecliff campus is located 2.5 miles away on Victory Parkway, with a panoramic view of the Kentucky hills and Ohio countryside divided by the winding bends of the Ohio River seen from the southern edge of campus. A blend of historical mansions and modern architecture reflects the beauty of the past and the excitement of the future.

Administration Building

The Administration Building is the location of most administrative offices, the chapel, and several faculty offices and classrooms, as well as one of the campus dining facilities.
Student Services

Brennan Memorial Library

This library houses a periodical room, audio-visual equipment, reading and reference rooms, and open stacks of over 71,000 volumes and 8,000 periodicals. In addition, students have access to Xavier's library on the main campus and to over 7,000,000 volumes of the 31-institution Consortium of public and private libraries in and around Cincinnati.

Carriage House

The Carriage House serves as the location of several art studios and as the workplace of Paul Chidlaw, Edgecliff's "Artist in Residence."

Edgecliff Corbett Theatre

The Edgecliff Corbett Theatre, a newly renovated stone structure, houses the Corbett Theatre and all classrooms, offices, and modern technical facilities for the Theatre Arts major.

Emery Gallery

Emery Gallery is the location of the College's Art Department. This 19th century former residence is, indeed, an architectural masterpiece. Its sixteen immense rooms have been converted into studios, classrooms, and offices. Emery Galleries, located on the first floor of this building, serves as an exhibition hall for students, as well as local, national, and international artists.

Grace Hall of Science

Grace Hall houses all lecture rooms, laboratories, and faculty offices for Biology, Chemistry, Consumer Science, Cincinnati College of Mortuary Science, and Public Administration.

Maxwelton

This 19th century Tudor Gothic mansion was formerly the site of many brilliant receptions for artists and musicians. It appropriately houses the offices, practice rooms, and classrooms for Music.

Sullivan Hall

This modern seven-story dormitory offers accommodations for 240 students (double occupancy). Each floor offers students a view of the Ohio River and its surrounding hills. A sundeck invites students to meet year round. Located in Sullivan Hall are the Criminal Justice and Corrections Program and offices for the Dean of Students, Financial Aid, Student Placement, Campus Ministry, Bookstore, and Security.

Student Services

Academic Counseling

Deans and Associate and Assistant Deans of the Colleges of Arts and Sciences, Business Administration, Continuing Education, and Edgecliff College serve as counselors in the respective colleges. They are assisted by an Academic Counselor. The Academic Counseling Office for personal academic counseling is located in Alter Hall. The Foreign Student Adviser is available to all foreign students for matters of admission and other items pertaining to naturalization and immigration service. A faculty counselor is available to each student in his/her major area of concentration.
Student Services

Campus Ministry

Bellarmine Chapel is the focal point of Xavier's campus ministry. Unique in its twin role of campus chapel and diocesan parish, it forms a diversified Christian community from both the campus and the surrounding neighborhood.

Among the services sponsored by campus ministry are liturgical events, retreats, marriage preparation, speakers and special events, opportunities for volunteer work, and personal counseling. Some of the campus ministry staff reside in the residence halls to be more available to students.

Greater Cincinnati Consortium of Colleges and Universities

Twelve area colleges offer new opportunities for curriculum enrichment through cross-registration in order that all students may take courses generally not available at their home institutions. Participating schools besides Xavier are the Art Academy of Cincinnati, Athenaeum of Ohio, Chatfield College, Cincinnati Technical College, College of Mount St. Joseph, Hebrew Union College, Miami University, Northern Kentucky University, St. Thomas Institute, Thomas More College, and the University of Cincinnati. The program is available to all full-time students.

Office of Career Planning and Placement

Located on the ground floor of the University Center, the Office of Career Planning and Placement offers a wide range of services to Xavier undergraduates, graduate students, and alumni. These include career counseling, workshop series, special programs and materials, and educational, vocational, and employer information resources.

Placement services include full-time, part-time, and summer job referral and placement for students and alumni; monthly job notification newsletter for alumni (available by subscription); and on-campus recruitment interview scheduling.

Arrangement of undergraduate intern placement in conjunction with academic departments offering internship opportunities and an outreach counseling program staffed by volunteer alumni (Alumni Career Advising Service) are additional services of note.

Food Service

The Cafeteria and Musketeer Inn located in the University Center Building provide meal service for the Xavier community.

Student Health Services

The University provides a health clinic to serve students and the University community. It is located in Kuhlman Hall. A fee for services is charged to those who are not full-time undergraduate students. A small fee is charged for some medications.

Student Government and Activities

The Office of Student Development oversees the welfare of both resident and commuter students. All student organizations are under the general supervision of the Dean for Student Development.

Student government is devoted to improvement in the quality of student life. The main governing organization of the student body is the Student Senate.

With more than 60 student activities and organizations from which to choose, Xavier students can find satisfying outlets for a variety of interests, hobbies, and talents. Full information on student government and student activities may be found in the Student Handbook available from the Office of Student Development.
Student Services

Community Relations

In 1969 the University established the Center of University and Urban Affairs. It is concerned with pressing community issues—civic, economic, social, cultural, and educational.

Afro-American Student Development

The Office of Afro-American Student Development recruits and aids minority and disadvantaged students, develops programs for better understanding of their problems by the University Community, and assists in efforts to recruit minority-group faculty and graduate assistants.

Intramural Athletics

The Intramural Program provides the opportunity for every Xavier student, faculty member, and staff member to participate in a variety of sport competition and physical activities. These activities are designed to meet their needs, abilities, and available leisure time during their academic years at Xavier. Some of the sports offered are: softball, flag football, basketball, volleyball, racquetball, tennis, water sport, soccer, floor hockey. All sports have men, women, and co-rec divisions.

Intercollegiate Athletics

Xavier University believes that there are sound values in intercollegiate athletic competition and that it has a valid place in American education. Intercollegiate athletics, therefore, are conducted to further the education of the students physically, emotionally, intellectually, and morally. Participants learn the value of cooperative effort and the necessity of subordinating their own good to that of the group. They also learn the need for poise and competence in the face of opposition, and they learn a sportsmanlike respect for rules. Intercollegiate rivalry also benefits the student body by providing wholesome recreation and the opportunity for the undergraduates to show their loyalty to all phases of University's program. Students gain the educational value of sharing in group activity, and also learn to respect the rules as sportsmen.

The program of intercollegiate athletics at Xavier includes basketball, baseball, golf, soccer, sailing, tennis, cross country, women's basketball, women's volleyball, and swimming. These activities are administered by the Athletic Director, who is advised by the Athletic Board and is responsible to the Vice President and Dean for Student Development.

Participants in intercollegiate athletics, as in other co-curricular activities, must be in good standing. They must have entered the University in accordance with the admission norms published in the catalogue and will be subject to the regular scholastic demands. If, in the judgment of the Dean, their participation in athletics interferes with their progress toward a degree, he may forbid them to continue even though they are not on scholastic probation.

At the club level, the University also provides the opportunity to participate in rugby, boxing, karate, ice hockey, and bowling.
Privacy Rights of Parents and Students

The Family Education and Privacy Act of 1974 (as amended) details the rights of parents and students to access of most records held and maintained by educational institutions. The law further requires that parents or eligible students be notified of the types of records held and officials responsible for such records.

Parents have the right of access, review and challenge for elementary and secondary students (under the age of 18). The student assumes the rights of the parents at age 18 or upon attendance at a postsecondary institution. However, if the student is considered dependent (according to the 1954 Internal Revenue Code), both the student and parents have access rights.

In compliance with Section 99.5 of the Family Education and Privacy Act of 1974, the following information is published for all students at Xavier University.

Types of Records Maintained

Pursuant to the task of operating an educational institution, Xavier University maintains student files in the areas of Admissions, Academic, Housing, Student Financial Aid, and Placement, as well as transcripts of formal Discipline Board hearings, health records, psychological counseling and test results, and athletic records.

Office Responsible for Maintenance of Records:

<table>
<thead>
<tr>
<th>Records</th>
<th>Official's Name and Title</th>
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</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>Mr. Rene Durand, Dean of Admissions</td>
</tr>
<tr>
<td></td>
<td>Dr. Robert H. Helmes, Dean, College of Continuing Education</td>
</tr>
<tr>
<td></td>
<td>Dr. David C. Flaspohler, Dean, Graduate School</td>
</tr>
<tr>
<td>Academic</td>
<td>Mr. James R. Kaiser, University Registrar</td>
</tr>
<tr>
<td></td>
<td>Dr. Robert H. Helmes, Dean, College of Continuing Education</td>
</tr>
<tr>
<td></td>
<td>Dr. David C. Flaspohler, Dean, Graduate School</td>
</tr>
<tr>
<td>Housing—Main Campus</td>
<td>Mr. Robert F. Becker, Director of Residence Life</td>
</tr>
<tr>
<td>Housing and Discipline—Edgecliff Campus</td>
<td>Ms. Margaret A. Dillon, Dean of Students</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>Mr. James F. Kelly, Director of Student Financial Aid</td>
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<tr>
<td></td>
<td>Dr. Robert H. Helmes, Dean, College of Continuing Education</td>
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<td></td>
<td>Dr. David C. Flaspohler, Dean, Graduate School</td>
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<tr>
<td>Discipline</td>
<td>Mr. Roderick C. Shearer, Dean for Student Development</td>
</tr>
<tr>
<td>Health</td>
<td>Mrs. Ann T. Brown, R.N., Director, McGrath Health Center</td>
</tr>
<tr>
<td>Psychological Counseling</td>
<td>Dr. David Hellkamp, Director, Counseling Center</td>
</tr>
<tr>
<td>Athletic</td>
<td>Mr. Robert J. Staak, Director of Athletics</td>
</tr>
<tr>
<td>Placement</td>
<td>Mrs. Louis M. Burke, Director of Career Planning and Placement</td>
</tr>
<tr>
<td>Teacher Education and Placement</td>
<td>Dr. Milton A. Partridge, Chairman, Department of Education</td>
</tr>
</tbody>
</table>

Review and Expunging of Records

Each of the departments listed has review procedures and methods of expunging inaccurate data which are particular to the type of records kept and to the specific purpose for which they are maintained. Specific procedures can be determined by contacting the head of the department concerned. While academic transcripts are kept permanently, all other records are destroyed either when the student leaves Xavier or within a few years following his/her departure.
Privacy Rights

Access to Records

Pursuant to Section 99.13, students have the right of access to all educational records except those specifically excluded under the amendments to the Privacy Act. The following materials are specifically exempted from access by students: (1) Personal notes to teachers and administrators, provided these notes are not available to a third party other than a teacher's substitute. (2) Law Enforcement Records, to include those of the campus police force. (3) Medical and Psychiatric Records—these records are not available to anyone except those providing the treatment. However, the records may be reviewed by a physician or other appropriate professional of the student's choice.

In addition to the above excepted information, the following are not accessible to students: (1) Parents' Confidential Financial Statements. (2) Confidential letters of reference placed in the file prior to January 1, 1975.

The student does have the right of access upon request to all other educational records and files which are directly related to the student. This includes all admissions records, registration files, financial aid materials (excluding the PCS mentioned above), housing files, discipline records, and any athletic records.

The student may waive the right of access to letters of reference and also provide a prospective employer with a signed authorization for release of information about the student as part of an employment application. An employer, however, cannot make this waiver mandatory for employment.

Procedures for Challenging Content of Records

The procedures for challenging content of any specific record for reasons of inaccuracy or bias can be either informal or formal hearings. Formal hearings, required when informal discussion fails to bring a resolution to the problem, will be conducted within a reasonable length of time, and the decision rendered by an impartial official who has no direct interest in the matter at hand. The parents and/or student have the right to present evidence that the challenged material is inaccurate, misleading, or in any way inappropriate for the particular file. Correction or deletion should be requested. All formal hearing decisions must be rendered in writing within a reasonable length of time.

Cost of Reproducing Files

Students have the right to request and receive copies of all materials contained in those files deemed accessible in Section 4. The cost of reproduction shall be borne by the requesting party and shall not exceed the cost to the institution. The present charge for a Xerox duplicate must be paid per page, per copy. The current charge for transcripts must be paid for a complete copy of the academic record. A representative of Xavier University will be present during the duplication to insure that complete and accurate copies are made to prevent the possibility of unauthorized deletions or corrections.

Directory Information

The Family Education and Privacy Act permits the public release of what is termed "directory information." For Xavier University's purposes, this information includes the following: the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees awarded, special honors and awards, and the most recent previous educational agency or institution attended by the student.

Xavier University is required to publicly announce to the students that which Xavier will release as directory information. If a student does not wish "directory information" released by Xavier, that student must inform the appropriate offices about which information should not be released.
Admission policies apply in general to all undergraduates. Those planning to enter the College of Continuing Education, however, should apply directly to the Dean of that college.

Admissions

Application for Admission

Students applying to the College of Arts and Sciences, the College of Business Administration, or the Edgecliff College must submit an "Application for Admission," which can be obtained from the Office of Admissions. The completed form should be returned to that office with a $15.00 application fee. This fee is not refundable or applicable to any account.

The applicant must also request the high school (and any post-secondary institutions attended) to forward directly to the Office of Admissions an official transcript of the academic record. Credentials accepted for admission become the property of the University. All credentials should be on file at least one month before the day of registration. Scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) should also be forwarded. A recommendation from a counselor or teacher is encouraged.

Evidence of a student's potential for success in college studies is judged by the high school average, rank in class, aptitude test scores, and the comments offered on recommendations. Of these, the high school record (or for transfer students, the previous college record) remains the most important factor.

Requirements for Admission

To be eligible for admission a student must be a graduate of an accredited high school, and normally have a minimum average grade of "C." (A minimum academic average of "B" is ordinarily required for admission to the pre-medical program.) Applicants whose averages are lower may be considered and admitted at the discretion of the Committee on Admissions.

The high school record should normally include a minimum of fifteen units of which eleven must be in academic subjects including:

- English, 4 units
- History, 1 unit
- Foreign language, 2 units
- Math, 2 units
- Science, 1 unit

The foreign language requirement can be fulfilled by substituting two units of history and/or science. (A unit is the equivalent of a subject extending through a scholastic year of thirty-six weeks with five meetings per week.)

All freshman applicants are also required to submit the results of the College Entrance Examination Board Scholastic Aptitude Test (SAT) or the American College Testing Program Examination (ACT).

Xavier University is an academic community whose doors are open to all qualified men and women regardless of religion, race, color, handicap, or national origin.
Admission

High School Equivalence

A Certificate of High School Equivalence is recognized in individual cases as a replacement for the high school diploma. Applicants should have copies of their scores and of the Certificate forwarded directly to the Office of Admissions, or if they are applying to the College of Continuing Education, to the Dean of that college.

Advanced Placement

Through Xavier University's participation in the Advanced Placement Program of the College Board and on a limited basis in the College Level Examination Program (CLEP) students can earn academic credit which fulfills requirements toward a degree. Through the University's own test-out program, students are offered the opportunity to place out of basic courses and advance to higher level courses.

Early Admission

Xavier University offers the opportunity for superior high school students who have completed their junior year to enroll at the University. Such students must have maintained a grade point average of at least B, and their admission must be recommended by the high school counselor. Courses completed in high school should include three units of English, two of mathematics, two of science, two of social science, and two units of one foreign language. An interview is strongly recommended for students interested in this program.

Arrangements can also be made for students completing their senior year in a Cincinnati area high school to enroll at the University on a part-time basis.

Readmission

An applicant who was previously registered at Xavier and has attended no other college or university since leaving Xavier is required only to complete a Readmission Application Form available in the Registrar's Office. A student who has attended another school since leaving Xavier should apply through the Office of Admissions as a transfer student.

Students suspended for poor scholarship from the University or from other institution will ordinarily not be eligible for admission or readmission until the lapse of at least one semester. In all cases admission or readmission and the conditions for such will be determined finally by the Dean of the appropriate college.

Transfer Students

Xavier University welcomes qualified students from other institutions of higher education. In addition to the credentials required of all freshman applicants, transfer students must forward to the Office of Admissions complete and official transcripts from all post-secondary institutions attended and a listing of all courses which may be in progress and their corresponding credit hours. No applicant may disregard his previous college record and apply for freshman standing.

The rank of advanced standing to which the student will be admitted will depend upon the quantity and quality of the work done in the other institution or institutions, the accreditation of the institution, and the conformity of the work to the degree program in which the student wishes to register. Evaluation of credits for advanced standing will be provisional for at least one semester. If a student transfers without a degree, credit is given for all academic courses in which he has received a grade of "C" or better. Ordinarily the grade of "D" will not be accepted unless the "D" will have been in a sequential course a subject for which a higher grade was obtained in a subsequent course. Courses must be such that successful completion of the second term is contingent upon material learned in the first term. If a student transfers into Xavier with an associate degree he will have academic courses accepted which were accepted for his associate degree even if
received the grade of "D" for them, provided only that his overall quality point average is at least 2.0.

The transfer credit, but not the grade, is recorded on the student's permanent record. Similarly, the grades are not computed in the student's Xavier grade point average. At least one-half of the course requirements of the major must be completed at Xavier University. Xavier's undergraduate day colleges will accept course work successfully completed within the last ten years; credit over ten years old is normally not acceptable. This time limitation also applies to work done by previous Xavier students returning after an absence.

Transfer students must meet the on-campus housing requirement. Please see Student Housing, page 15.

Transfers within the University

For information on policies regulating transfer between two colleges within the University, please consult the section of this catalogue entitled "Academic Regulations."

International Students

Applicants from foreign countries must submit official documents in English translation of all secondary education (and if applicable, of all university education). An applicant must have completed the level of education required for university admission in the student's native country. Students whose native language is other than English must submit evidence of English proficiency through a recognized examination such as the Test of English as a Foreign Language (TOEFL), the Michigan English Test, or a test from another accredited agency. Those students who have successfully completed the Xavier University program of English as a Second Language (ESL) may receive a favorable recommendation which is issued by the Chairman of the Department of Modern Languages.

In addition, in order to act on an application for admission and prior to the issuance of the Form I-20, the student's sponsor must submit an affidavit that all expenses will be paid, as well as a separate statement from an official source which gives evidence of the sponsor's ability to meet the expenses. An official medical examination report is also required for admission. All documents should be received by the Admissions Office at least three months prior to the intended term of enrollment.

International students must meet the on-campus housing requirement. Please see Student Housing, page 15.

Special Students

Students who possess sufficient educational background, maturity, and experience may, with the Dean's consent, choose special courses without following a complete degree program. Courses thus taken may be subsequently credited toward a degree upon admission to the University as a degree candidate.

Provisional Admission

Provisional admission may be granted by the Dean to a student who has been unable to complete arrangements for formal admission before registration dates. If the student fails to complete arrangements for formal admission within one month of the first day of class, the student's admission and registration will be canceled. Tuition paid will be refunded, but no fees can be refunded and room and board charges will be prorated.

Veterans

Xavier University is approved for the education and training of veterans and their dependents under all existing public laws. Requests for information should be addressed to the Director of Veterans' Educational Benefits, Xavier University, Cincinnati, Ohio 45207.
Admission

Notification of Admission

Each applicant will receive a letter of acceptance or non-acceptance to Xavier University as soon as all necessary credentials, as outlined in the Section "Requirements for Admission," are received.

Deposits

All new applicants who have been approved for admission are required to confirm their acceptance with a non-refundable tuition deposit of $50.00. The deposit or deposits may be submitted any time after the letter of approval has been received, but it must be paid by May 1. In addition, students who wish to reserve a campus housing accommodation must submit a non-refundable $75.00 housing deposit (room reservations will not be honored without payment of the deposit).

Students who are approved after May 1 will be given three weeks to make the deposit. The deposit is credited to the student's account and will be deducted from the total bill at registration.

No deposit is required of applicants to the College of Continuing Education.

Admission to the College of Continuing Education

Persons seeking admission to the undergraduate College of Continuing Education, whether in arts and sciences or in business administration, should apply to: The Dean, College of Continuing Education, Xavier University, Cincinnati, Ohio 45207.

Most of the regulations under "Application for Admission and Admissions Requirements" apply also to the College of Continuing Education. But certain differences must necessarily exist between admission to a full-time and a part-time program; hence, those seeking admission to the College of Continuing Education would be well advised to write or telephone that office.

It should be noted that non-local, full-time students registered for 12 semester hours or more through the College of Continuing Education and attending day classes must live in the dormitory until they attain status of Senior (90 semester hours completed). All fees applicable to full-time day students are applicable to full-time students registered for day classes through the College of Continuing Education.

Whether the desire is to read, think or merely scan the horizon, this overlook, like many out-of-the-way retreats on the Edgecliff Campus, looks out over the Ohio River, affording privacy and an atmosphere of comfortable contemplation.
Fees*

Communications concerning costs for the College of Continuing Education should be addressed to the Dean of the College of Continuing Education, Xavier University, Cincinnati, Ohio 45207. Certain charges, such as the deposit with the application, are not required by the College of Continuing Education.

Students should be aware of the inflationary economy within which the University operates. Since operating costs tend to rise continuously, income must match these increases. Over a four-year period of attendance tuition and fees usually increase to enable the University to face the challenge of quality education. The University's major source of income is tuition and fees, and they pay for a major part of the operating costs of the University. Additionally, the University reviews from time-to-time the payment process in order that the operations may be run effectively.

The following rates are effective in the regular academic year and in the summer sessions. All communications concerning expenses for the College of Arts and Sciences or the College of Business Administration should be addressed to the Dean of Admissions, Xavier University, Victory Parkway, Cincinnati, Ohio 45207.

A non-refundable fee of $15.00 must accompany the Application for Admission. For those requesting housing accommodations, an additional $75.00 is required. The housing deposit, paid to the Admissions Office for new and transfer students, will be applied to the student's regular account. It will not be refunded if the applicant, having been accepted, cancels his application or fails to enter the University.

Accounts Payable and Service Fee*

Any outstanding student account must be paid in full before registration will be permitted for a new semester.

All student accounts are due and payable at the time of registration. Arrangements may be made for partial deferred payment. Under the deferred payment plan, the following payments, for the semester, must be made before registration is completed: a) a minimum of 75% of tuition and fees, b) room and board charges. The balance is payable within sixty days. This same payment requirement and deferred payment plan applies to Summer Sessions, except that any unpaid balance is payable before the end of each summer Session.

On unpaid balances, the following service fee policy applies to all university students.

A 1-1/2% per month service fee will be charged to all accounts with an unpaid balance over 30 days old. The service fee is computed on the balance outstanding on the first day of the preceding month, less any payments and credits received during that month. New charges incurred during the month are not subject to a service fee for that month. To avoid any additional service fee, the entire amount due may be paid at any time.

Bills will be mailed monthly. No service fee will be charged if the total outstanding balance is paid on or before the last day of the month in which the bill is rendered.

Ordinary Expenses*

Tuition, Full-time undergraduate, including
- Honors Course and Edgecliff College per semester@
  (covers 12 to 18 semester credit hours) ........................................ $1900.00

*Expenses listed are for the 1982-1984 academic year. Changes are made in these rates from time-to-time.

@Includes College of Continuing Education students enrolled in two or more day classes.
Fees

Tuition, per semester hour in excess of
18 or fewer than 12, Colleges of Arts and Sciences, Business Administration, and Edgecliff College ................. $127.00
Tuition, per semester hour in excess of
18 or fewer than 12, College of Continuing Education .......... 88.00
Matriculation fee (payable once) ............................................. 10.00
ROTC fee (per semester) ....................................................... 10.00
Laboratory science fee (per course per semester, for Biology, Chemistry, Physics, Experimental Psychology, Physiological Psychology, and Statistical Techniques) .................. 40.00
Laboratory materials deposit (per course per semester—partially refundable) .................. 20.00
Laboratory materials deposit, Comparative Anatomy .......... 30.00
Laboratory materials deposit for science thesis (partially refundable) .................. 40.00
Medical Technology fee (see block schedule) .................. 75.00
General Fee (per semester) .................................................... 175.00
(The general fee includes the use of all non-classroom facilities, the Student Health Center, and a reduction in the fee charged for the services of the Psychological Services Center, admission to all athletic events, and the use of the facilities of the Fr. O'Connor Sports Center.)
Identification Card (annually)
Full-time students ............................................. 15.00
Part-time students ..................................................... 5.00
Language audiovisual fee (to be paid by first and second year Modern Language students, per semester) ................ 10.00

Contingent Expenses*

Fee for change in registration ............................................ $ 5.00
Late registration ............................................................. 7.00
   Additional per day ................................................... 1.00
   Maximum ............................................................... 12.00
Special examinations (each) .............................................. 3.00
Duplicate transcript ..................................................... 2.00
Undergraduate Record Examination .................................. 5.50
Graduation fee ............................................................ 30.00
Parking Permit
   Day classes (8:00 a.m.-4:00 p.m.) .................................. 30.00
   Evening Classes (4:00 p.m.-10:00 p.m.) Part-time students ........ 16.00

Room*

Room, per semester, double occupancy
Sullivan Hall ........................................................................ $525.00
Brockman Hall ..................................................................... 565.00
Marion, Kuhlman, Husman, Rattermann Halls ....................... 580.00
Additional charge per semester, for single occupancy
for all, seniors and others, as available ................................ 175.00

*Expenses listed are for the 1982-1984 academic year. Changes are made in these rates from time-to-time.
Hall Improvement fee (non-refundable) ........................................ $ 20.00

All rooms are equipped with a bed, desk, and chair. Students are expected
to bring blankets, towels, and soap.

**Board**

Students who live on campus are required to take their meals in the University Dining
Room on a seven-day basis. There are two basic plans from which students may choose:
(1) A seventeen meal plan includes breakfast, lunch, and dinner, Monday through Friday,
and dinner only on Saturday and Sunday; cost, $570 per semester. (2) A nineteen-meal
plan includes breakfast, lunch, and dinner, Monday through Friday, with brunch and dinner
Saturday and Sunday; cost, $595 per semester. Breakfast and lunch are available on Saturdays
in the Inn on a cash basis. Brunch is available on a cash basis on Sundays in the University
Dining Room. (Board includes meals from the first day of scheduled classes of the day under-
graduate divisions to the last day of scheduled examinations of the same divisions.)

**Refunds (Undergraduate)**

A refund based upon the total amount of tuition due for the semester can claimed. The
University semester refund schedule is as follows:

- Before the first class meeting .................................................... 100% refund
- First day of class and 7 calendar days thereafter .......................... 90% refund
- 8-13 calendar days after first class meeting ................................. 70% refund
- 14-20 calendar days after first class meeting ............................... 50% refund
- 21-27 calendar days after first class meeting ............................... 30% refund
- 28-34 calendar days after first class meeting ............................... 10% refund
- After 34 calendar days ............................................................. no refund

The amount of the refund will be calculated from the date of formal notification of
withdrawal.

- Of Withdrawal from the University.
- For tuition refund schedules for the summer sessions, consult the University Summer
  Bulletin.

- Fees are not refunded in regular or summer sessions.
- Room rate refunds are not prorated but follow the semester refund schedule.
- A refund of board expenses may be claimed by one separating from the University. The
  amount of refund will be proportioned to the date at which the student gives formal notice
  of separating from the University.

*Expenses listed are for the 1982-1983 academic year. Changes are made in these rates
from time-to-time.

**Financial Aid**

**Scholarships**

Information concerning University-sponsored scholarships is available from the following
sources:

1. For the College of Arts and Sciences, the College of Business Administration
   (undergraduate), and the Edgecliff College: The Director of Financial Aid or the
   Chairman of Scholarship Committee.
2. For College of Continuing Education Scholarships: The Dean, College of Continuing
   Education.
Financial Aid

3. For Graduate Scholarships: The Dean, Graduate School (cf. page 282).
4. For Reserve Officer Training Corps Scholarships: The Professor of Military Science.
5. For Athletic Grants-in-aid: The Director of Athletics.
6. For Band Scholarships: The Director, Xavier University Band.
7. For Hospital and Health Administration Programs: The Director, Health and Hospital Administration.

UNDERGRADUATE SCHOLARSHIPS
College of Arts and Sciences, College of Business Administration, and Edgecliff College

St. Francis Xavier Scholarships
These full tuition scholarships are awarded on a competitive basis to freshmen entering the College of Arts and Sciences and the College of Business Administration. They are awarded on the basis of superior ability and the highest academic achievement. All freshmen approved for admission to the Colleges of Arts and Sciences and Business Administration by February 1 will be considered for these scholarships. In order to retain this scholarship for four years, the recipient must maintain a cumulative average of 3.0 in the freshman year and 3.25 thereafter.

Mother McAuley Scholarships
These full tuition scholarships are awarded on a competitive basis to freshmen entering Edgecliff College. They are awarded on the basis of superior ability and the highest academic achievement. All freshmen approved for admission to Edgecliff College by March 1 will be considered for these scholarships. In order to retain this scholarship for four years, the recipient must attain a cumulative average of 3.0 in freshman year and 3.25 thereafter.

Trustee, Presidential, and Honor Scholarships
These scholarships are awarded on a competitive basis to freshmen and transfer students entering any of the three undergraduate day colleges. They are awarded on the basis of superior ability and high academic achievement. The amount of the scholarship depends on the student's academic qualifications and financial need, although a limited number are awarded solely on the basis of academic merit. All students who submit the College Scholarship Service Financial Aid Form and the Xavier Application for Financial Aid will be considered for these scholarships. The scholarship is renewable for each year of undergraduate studies provided that the recipient resubmits the Financial Aid Form each year and maintains a cumulative average of 3.0 in the first year and 3.25 thereafter.

Upperclassmen Scholarships
These scholarships are awarded to students enrolled in any of the three undergraduate day colleges. To be eligible, a student must have completed at least 28 hours at Xavier with a cumulative average of 3.25 or better, and have no other Xavier-sponsored scholarship or grant. While most of these scholarships are need-based, a limited number are awarded solely on the basis of academic merit. Applications for these scholarships should be made to the Financial Aid Office by April 15. The College Scholarship Service Financial Aid Form and the Xavier Application for Financial Aid must be submitted.
Financial Aid

Fredin Memorial Scholarships

Each year the Fredin Scholarship Committee awards several scholarships to worthy students to help them finance one full year of study in Paris, France. Established from the bequest of Mlle. Aline Fredin in memory of her parents, these scholarships are awarded on a competitive basis to Xavier students who have attained at least junior standing.

Art Scholarship

A full-tuition scholarship is awarded annually to the incoming Edgecliff freshman who submits the best portfolio in the art portfolio competition conducted by Xavier's Art Department.

The Scholastic Art Awards Scholarship

A full-tuition scholarship is awarded annually to an incoming Edgecliff freshman who has been declared a national winner in the Scholastic Art Awards Competition.

Regulations Concerning Scholarships—College of Arts and Sciences, College of Business Administration, and Edgecliff College

1. Xavier-sponsored scholarships apply to tuition alone. The tuition costs referred to here are those incurred on Xavier's campuses and not elsewhere. Scholarships are not applicable to room or board nor to the cost of summer school courses.
2. Only full-time students are eligible for scholarships.
3. Scholarships must be accepted for the period of time indicated in the award letter from the Financial Aid Office, and they are forfeited in the event that the recipient does not enroll. The individual who wishes to have his scholarship reinstated must reapply.
4. It is understood that the scholarship stipend will be divided evenly between the fall and the spring semesters. Hence recipients who attend only one semester will receive only one-half of their award.
5. All scholarships are awarded at the discretion of the Scholarship Committee of Xavier University. The Committee reserves the right to adjust the scholarship or grant if the holder receives financial aid from some other source.

ROTC Scholarships

The Department of the Army annually awards one-year, two-year, three-year, and four-year ROTC Scholarships to outstanding students. Information and applications for the four-year scholarships are submitted by high school senior candidates through the "Army ROTC, Fort Monroe, Va. 23651." For additional information, high school seniors should contact their guidance counselors or the Xavier University Military Science Department. Annually one-year, two-year, and three-year scholarships may be awarded to members of the Xavier University junior, sophomore, and freshman ROTC classes respectively. All scholarships cover the cost of books, tuition, and fees, plus a monthly $100 subsistence allowance for not more than ten months of the school year.

Students in the advanced course (junior and senior years) also receive a $100 per month allowance for the two years, not to exceed 20 months.

Air Force ROTC Scholarships

Any qualified student may enroll through the Consortium in Air Force ROTC at the University of Cincinnati. Upon graduation and successful completion of the AFROTC program, he/she will be commissioned as an officer in the United States Air Force. No obligation for military service is incurred during the first two years. During the junior and senior years students receive $100 per month. Scholarships are available for four years, three and one-
Financial Aid
half years, three years, two and one-half years, or two years. These include payment of college tuition, fees, books, and $100 per month.

GRANTS, LOANS, WORK-STUDY
Ohio Instructional Grants Program

The Ohio Instructional Grants Program, established by the 108th Ohio General Assembly, offers financial aid to Ohio students who are enrolled as undergraduates in an eligible Ohio institution of higher education. The amount is based upon the adjusted effective income of the family, the number of dependent children in the family, and the total instructional charges of the educational institution. To be eligible, a student must be a resident of Ohio. For further information, contact the Director of Student Aid, Xavier University.

Federal Financial Aid Programs

The following eligibility requirements must be fulfilled for Federal Financial Aid Recipients for the five programs which follow these requirements.
1. Be a U.S. citizen or permanent resident.
2. Must be enrolled on at least a half-time basis (6 semester hours or more) in eligible course of study at Xavier University.
3. Have demonstrated a financial need according to each program's criteria.
4. Maintain "satisfactory academic progress."
5. Not be in default on any loan made from a student loan fund at Xavier University or on a loan made, insured, or guaranteed under the Guaranteed Student Loan Program for attendance at Xavier University.
6. Not owe a refund on grants previously received for attendance at Xavier University under the Basic Educational Opportunity Grant Program, the Supplemental Educational Opportunity Grant Program, or State Student Incentive Grant Program.

National Direct Student Loan

The National Direct Student Loan Program is a continuation of the National Defense Student Loan Program authorized by Title II of the National Defense Education Act of 1958. Recipients are selected by the school itself.

The borrower must be enrolled as at least a half-time student, in need of financial aid for his education, and judged capable of maintaining good academic standing.

Repayments begin on a monthly basis within six months after the borrower ceases to be at least a half-time student. These loans carry a 5 percent interest on the unpaid balance during the repayment period. The loan must be repaid in accordance with the terms specified in the promissory note. For further details, communicate with the Director of Student Aid, Xavier University.

Guaranteed Student Loan

A guaranteed student loan is a low interest loan made by a bank, savings and loan or credit union to college students. The student pays an origination fee and insurance premium but the federal government pays the interest while the student is enrolled in college as at least a half-time student plus an additional six months. Undergraduates may borrow up to $2,500 a year and graduate students up to $5,000 a year. The maximum debt combined for undergraduate and graduate Guaranteed Student Loans is $25,000. The amount of the loan is determined by cost of attendance, other financial assistance aid, and family income. Currently families with adjusted gross income of $30,000 and under qualify immediately while those with income in excess of $30,000 must file a needs analysis form. The student begins repaying the loan six months after leaving college and the current interest rate is nine percent. Forms are available from the lenders.
Financial Aid

The College Work-Study Program

The Economic Opportunity Act of 1964 makes Government funds available to colleges and universities for part-time work, usually on campus. Applicants should be nationals (citizens) in need of the earnings to meet their college expenses, should have good academic standing, and should carry a normal (full-time) number of academic course hours. Under this program students may work up to 20 hours per week when their classes are in session and not more than 40 hours per week in vacation periods or during the summer when not enrolled in classes. Whenever possible, Work-Study jobs will be co-aligned with the student's course of studies to give the most valuable educational experience.

Xavier University participates in this program. For further details, communicate with the Director of Student Aid, Xavier University.

Supplemental Educational Opportunity Grants

The United States Office of Education provides funds for grants from $200 to $1,500 a year to worthy undergraduate students in exceptional financial need. Grants are renewable for four years. The University determines the recipients of these awards in light of financial need and other resources.

Pell Grants

The Pell Grant Program is a Federal aid program designed to provide financial assistance to those who need it to attend post-high school educational institutions.

Grants ranging from $200 to $1,800 are made to students with financial need who are enrolled one-half, three-quarters, or full-time in an eligible undergraduate program.

Further information may be obtained from the Director of Student Aid, Xavier University.

Plus Program Loan

Parents may borrow from a participating bank, savings and loan, or credit union up to $3,000 per academic year for each dependent student enrolled in college regardless of the family's income. The simple interest rate is 12%. Repayment must begin within 60 days after the loan is made, but the family may take up to ten years to repay the loan. The loans may be consolidated if the family takes out another loan the following year. Detailed information and applications are available from financial institutions.

Scholarships

Donations to the permanent scholarship fund of Xavier University honor and memorialize many individuals, classes, and organizations whose names are listed below.

The income from this permanent endowment is used to award numerous annual scholarships to deserving students. Certain scholarships are restricted by department, secondary school attended, or other factors. Students are encouraged to indicate a general interest in financial assistance at the time of their application. Awards from specific funds are initiated by the Chairman of the Scholarship Committee.

Questions concerning the procedure for seeking a University scholarship should be directed to the Admissions Office or the Scholarship Committee.

Laura Albers Memorial Scholarship
Audrey C. Alonso Memorial Scholarship
Mr. & Mrs. William L. Alter Scholarship
Alumni Chapter Scholarships — Cleveland, Columbus, Dayton, Detroit, Toledo
Blakely Family Memorial Scholarship
Edmund J. Bradley Memorial Scholarship
Financial Aid

Albert F. & Bernadetta Broering Memorial Scholarship — in memory of Rev. Theodore Rolfs and Ada M. Rolfs
Henry Bunker Memorial Scholarship
Raymond L. Buse Memorial Scholarship
Centennial Scholarship
Ralph W. Chambers Memorial Scholarship
Class of 1931 Scholarship
Class of 1956 Scholarship
Class of 1969 Scholarship
Class of 1970 Scholarship
Class of 1971 Scholarship
Class of 1973 Scholarship
Ralph and Julia Cohen Scholarship
Helen and Harry Cordesman Memorial Scholarship
James H. and Mary S. Curran Memorial Scholarship
Jack Curran Memorial Scholarship
Raymond E. and Grace Daley Scholarship
William H. Deddens Memorial Scholarship
Helen Herrigian Diebl — Thomas J. Klinedinst Scholarship
Rev. Albert Dierkes, S.J., Memorial Scholarship
The Dornheggen Scholarship
Jesse K. Dunn Memorial Scholarship
Freda Memorial Scholarships
Garry Family Memorial Scholarship
Harry J. Gilligan Memorial Scholarship
James F. Griffin III, Memorial Scholarship
L. H. Gunter Memorial Scholarship
Rita Elsaesser Harpenau Memorial Scholarship
Frederick A. Hauck Physics Research Scholarship
Rev. William P. Hetberington, S.J., Memorial Scholarship
Mr. F. W. Hinkle Memorial Scholarship
Louis J. Homan Scholarship
Doreen Jankowski, Class of 1974, Memorial Scholarship
Thomas K. Jenkins, Jr., Memorial Scholarship
Richard A. Jones Memorial Journalism Scholarship
Edward F. Macke, '98, Memorial Graduate Scholarship
Fred F. Mackentape Memorial Scholarship
William V. Masterson, '41, Memorial Scholarship
Walter A. McDonald Memorial Scholarship
Walter A. and George McDonald Memorial Fund
Kenneth R. (Bill) McKowen Memorial Scholarship
Archbishop McNicholas Memorial Scholarship
Rev. Frederick N. Miller, S.J., Memorial Scholarship
Jackson H. Miller Memorial Scholarship
Marvin J. Moran Memorial Scholarship
Katherine Niehaus Memorial Scholarship
Rev. Victor B. Nieporte, S.J., Memorial Scholarship
Mr. & Mrs. Fletcher E. Nyce Scholarship
Rev. Paul L. O'Connor, S.J., Memorial Scholarship
Mr. & Mrs. Theodore H. Oppenheim Memorial Scholarship
Rev. William F. Poland, S.J., Memorial Scholarship
A. Poppis Family Memorial Scholarship
Joseph B. Reynolds Memorial Scholarship
Lt. Robert T. Rice, Jr., Memorial Scholarship
Once this student selects her class schedule at the Registrar's Office, the process of enrollment reflects the administration's determination to give her the schedule she has chosen.
Curricular Information

The Curriculum

The various curricular programs of the University are designed to attain the educational objectives as described in the "Objectives of the University." The various curricula are planned to provide learning experiences for the liberal education. The basic core curriculum—required of all students—has been designed to accomplish this goal. Additionally, opportunities for concentration in special areas of learning are provided through the broad offerings of University majors.

Degrees

The University will confer a bachelor's degree upon any candidate who has successfully completed an accepted program of studies, and who has fulfilled, prior to graduation, all degree requirements, both general and particular. Degrees conferred on candidates of the College of Arts and Sciences are the Bachelor of Arts, Honors Bachelor of Arts, and Bachelor of Science. Graduates of the College of Business Administration receive the Bachelor of Science in Business Administration. Edgecliff College degrees are listed on pages 134-157.

The Core Curriculum

The University core curriculum has been established to attain the ends of a Jesuit liberal arts education. The general requirements of this curriculum apply to every degree program at the undergraduate level of the University. While these requirements apply to all degree programs, exceptions are found in several programs. The student should study the specific requirements of the degree for any exceptions to these general regulations. The core curriculum may be seen as general educational requirements, and it seeks to provide the student with the universalism and breadth associated with liberal arts education.

Humanities

Every student must successfully complete 12 semester hours of electives in the humanities. Six of these hours must be in literature, either in English or another language. The remaining six semester hours may be in an approved humanities courses offered by the University. (Any prerequisite to these courses must be completed.) Courses which fulfill the humanities requirements are posted each semester.

Students who are enrolled in programs which do not have a foreign language requirement (e.g., students in the College of Business Administration) may take up to six hours of an intermediate level foreign language for non-literature humanities credit. In the College of Continuing Education, the student fulfills the humanities requirement according to the degree program being pursued in arts, science, business administration, or general studies.

Social Science

The student must also pass 12 semester hours of electives in the social sciences. The College of Arts and Sciences and Edgecliff College require that six of these hours must be in history at the 100-level courses. They must include a I and II course, not necessarily sequential in content or in the I-II sequence. (See page 192.) In most degree programs the remaining six hours are to be elected from approved social science courses. These courses are posted each semester.

In the College of Business Administration, six of the hours are fulfilled by Ec 101 and Ec 102 in all business administration degree programs. The remaining six hours are fulfilled from social science electives not in the business core curriculum. In the College of Continuing Education the same regulations apply to the corresponding degree programs.
Curricular Information

Mathematics

The University requires evidence of skills in secondary mathematics. This requirement can be satisfied by standardized test scores or by passing a test offered by the University's Mathematics Department. Otherwise the student must take Mt 105 Fundamentals of Mathematics. The course should be taken in the freshman year. Mt 105 does not fulfill any University mathematics requirement. However, the semester hours—three (3)—may be used to fulfill any free elective requirements in the student's program but only if the student has not previously successfully completed any college-level mathematics. In addition, any student who wishes may audit Mt 105.

The University also requires each student to successfully complete six semester hours in mathematics. Two courses of similar content cannot be elected to fulfill this requirement. In many degree programs the courses are electives. Specific mathematics courses are required in others. The College of Business Administration requires specific mathematics courses in all its degree programs. The College of Continuing Education's requirements follow the degree requirements in the program. Students should study the requirements of any degree concentration for any specific courses.

Science

Six semester hours of the same laboratory science must be passed successfully by all students. In some degree programs this requirement is fulfilled by a science course which requires more than six semester hours over two semesters (General Biology-Zoology, General Chemistry, College Physics, or University Physics). The two semester courses (six semester hours total) which fulfill this regulation are: Biology 120-133 Life and Laboratory; Biology 180-183 Ascent of Man and Laboratory; Chemistry 105-105 Men, Molecules, and the Environment and Laboratory; Physics 116-119 Our Universe and Laboratory; and Psychology 121-124 General Experimental Psychology and Laboratory.

Philosophy

Twelve semester hours of philosophy are generally required of all undergraduates. All courses are grouped under four Areas, corresponding to each of the four undergraduate years. Thus, freshmen usually take an Area I course, sophomores an Area II course, and so on.

An Area I course is a prerequisite for Area II courses.
An Area II course is a prerequisite for Area III courses.
An Area III course is a prerequisite for Area IV courses.

Area IV courses (PL 300-399) are free electives for students, usually seniors, who have completed nine credit hours of philosophy. Students in Edgecliff College may satisfy the last three credit hours of the philosophy requirement with three hours of Theology.

Requirements for transfer students depend upon transfer evaluation. Normally, a transfer student takes one course in philosophy for each year of academic requirements at Xavier.

Theology

Th 111 Introduction to Theology is required of all students. It is a prerequisite to all theology courses. Additionally, nine semester hours of theology electives are required in every degree program. The student may elect any nine semester hours in theology to complete this curricular requirement from theology courses numbered 200-399. Requirements for transfer students depend upon transfer evaluation. Normally, a transfer student takes one course in theology for each year of academic requirements at Xavier. Students in Edgecliff College may substitute the last three credit hours of the Theology requirement with three hours of Philosophy.
Curricular Information

English Composition

The University requires evidence of skill attainment in writing. This requirement can be satisfied by successfully passing a test in written composition offered by the University's English Department. Otherwise the student must take En 101 English Composition. The course is generally taken in the freshman year.

Foreign Language (Classical and Modern)

The College of Arts and Sciences requires proficiency in one foreign language for its degree programs. A few degree programs do not require a foreign language (See Degree Program). The College of Business Administration does not require a foreign language in any of its programs.

Classical Languages

Proficiency in Latin, Greek, and Hebrew is defined as the ability to read the literature of the chosen language, as demonstrated either through a proficiency test or by the successful completion of a series of courses. The number of courses depends upon previous achievement. A student who has had two or three years of high school Latin normally takes three courses; one having four years normally takes two courses.

Modern Languages

Proficiency is achieved by the successful completion of the 122, second semester intermediate course, in either French, German, or Spanish. A proficiency test determines the number of courses, if any, a student needs to take; the maximum is four three-hour courses.

International Students

International students are not required to take foreign languages.

Summary of Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>12</td>
</tr>
<tr>
<td>Humanities</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy</td>
<td>12</td>
</tr>
<tr>
<td>Science</td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Economics</td>
<td>6</td>
</tr>
<tr>
<td>Theology</td>
<td>12</td>
</tr>
</tbody>
</table>

*See explanatory statements for each area of the core curriculum above.
**Incoming students may earn semester hours in these subjects if they take advance placement courses in high school and achieve a minimum score on the College Entrance Examination Board's Advanced Placement Examinations.
***Edgecliff College also requires an additional 6 hours of philosophy or theology, or 3 additional of each.

Choice of Major

In the selection of a major and in changing majors, students are strongly advised to seek counseling from the department or program chairman, from the department or college academic counselor, or from the Dean.
In order to graduate with two majors, a student must complete all the curricular requirements of both majors including the comprehensive examination or its equivalent. Both majors are noted on the student's permanent record, but only one degree is conferred, namely the one that corresponds to the student's first major. The student must also complete the Core Curriculum requirements of the first major. The Core Curriculum requirements of the second need not be completed unless a business major is elected as the second major. In this case, the requirements of the "Business Core" must also be met.

Free Electives

A number of University degree programs and majors require additional hours in free electives to complete degree requirements. A student may take no more than six hours of free electives in his or her major field, above those which the major requires.

Semester Hours

The number of semester hours which each course carries is provided in the course description section of this catalogue. The number of hours is represented by the arabic numeral following the title of the course under each department's course listings and descriptions.

Course Numbering System

100 to 199 Lower division courses.
200 to 399 Upper division courses.
400 to 499 Special University Programs, Undergraduate and Graduate.
500 to 799 Graduate courses only.

Academic Regulations

Classification of Students

Lower Division Groups:
1. Freshmen—students having less than 23 credit hours.
2. Sophomores—students having from 24 through 54 credit hours.

Upper Division Groups:
1. Juniors—students having from 55 through 89 credit hours.
2. Seniors—students having a minimum of 90 credit hours.

Other Groups:
1. Part-time—students taking less than 12 credit hours of work in any semester.
2. Special—students who have not declared themselves as candidates for any degree.
3. Auditor—students taking courses but not for college credit.

Unit of Instruction

A unit of instruction is one hour a week for a minimum of fifteen weeks. The unit is called a credit hour. A weekly two- or three-hour period of laboratory work is considered equivalent to one credit hour.

Examinations

Examinations in all courses are regularly held at mid-semester and the end of the semester. A student who has been absent from a mid-semester or semester examination will receive a grade of X if the excuse for the absence is acceptable to the Dean; otherwise, the absentee will receive a failing grade. Absence, however, does not excuse a student from the requirement of a special examination at a time determined by the Dean. If an X grade is not removed within two weeks, a grade of F will be given for the course.
Academic Regulations

Incompleted Work

Course assignments are due at the time specified by the instructor. Extension of time beyond the termination of the course is rarely granted and only for a serious reason. If an extension of time is granted, the mark of "I" (Incomplete) will be in the student's permanent record. Unless the assignments are completed within 2 weeks after the last day of the regularly scheduled examinations, the student will be recorded as failing the course. In all cases of recorded "I" grades, the "I" will remain on the permanent record and the earned grade or the failing grade will be recorded as well.

Advanced Placement and Credit by Examination

Xavier University participates in the Advanced Placement Program of the College Entrance Examination Board. Ordinarily, a grade of "3" or better in an Advanced Placement examination will earn the student advanced placement with credit in that discipline. Xavier also participates on a limited basis in the College Level Examination Program of the College Entrance Examination Board. For further information contact the Admissions Office or the Office of the Dean.

Entering students will be awarded advanced placement with credit for college level courses taken during their high school years under the auspices of a duly accredited university or college. Credit will be granted in these courses provided the student earned a grade of "C" or better. An official transcript should be sent to Xavier's Admissions Office.

Grading System

A — Exceptional.
B — Good.
C — Satisfactory.
D — Minimum Passing.
F — Failure.
I — Incomplete; grade withheld pending fulfillment of assignment.
W — Withdrawal (approved).
X — Absent from examination.
S — Pass for Pass-Fail electives.
U — Unsatisfactory for Pass-Fail electives.

N.B. No undergraduate may withdraw from a full semester course within the last 28 days of a full semester course before the first day of the final examinations. Withdrawals from short-term courses are limited to the first two-thirds of the course. After these deadlines a student must either take the examinations or receive a failure.

Quality Points

The quality point is the unit used in measuring the quality of student achievement in a course. The number of quality points received for any course is equal to the number of quality points attached to the grade received multiplied by the number of credit hours yielded by the course. Quality points are given as follows:

A — 4 points per credit hour
B — 3 points per credit hour
C — 2 points per credit hour
D — 1 point per credit hour
F — 0 point per credit hour
I — 0 point per credit hour

The scholastic standing of the student at the end of any session is the ratio of the total number of quality points received to the total number of credit hours carried in that session. A College of Continuing Education session or semester consists of twelve consecutive semester hours.
Satisfactory/Unsatisfactory

Juniors and seniors may take 6 hours on a Satisfactory/Unsatisfactory basis. In addition, education certification students must take their hours of student teaching as S/U. Courses in Military Science may not be taken on S/U basis. Premedical and pre dental students should not take science courses as S/U, nor should those working for teaching certificates elect education courses on an S/U basis.

A grade of "Satisfactory" is the equivalent of the grade "C" or higher in the course. "Unsatisfactory" is the equivalent of "F"; and a "D" grade in the course will be recorded as a "D" on the student's record.

Good Standing

In order to remain in good academic standing, a student must maintain a cumulative average of 2.0. Failure to maintain this requirement will result in the student's being placed on warning, or on probation, or being suspended by the University.

If a freshman's cumulative average falls below 2.0 but is not less than 1.75 in a semester, he will be warned. If a freshman's cumulative average falls below 1.75 in a semester, he will be placed on probation or suspended.

If a student's cumulative average as a sophomore, junior, or senior falls below 2.0, he will be placed on probation or suspended.

During that semester that a student is on probation his program may be reduced to twelve semester hours and he may not publicly represent the University nor may he be an officer of a student activity.

In determining probationary status, completion of two courses totalling at least five semester hours during the summer session is considered the equivalent of a semester's work.

Dean's List

In any semester students carrying at least twelve credit hours for letter grades (i.e., not Pass-Fail) with an average of at least 3.25 are placed on the Dean's list for that semester. (Part-time students in the College of Continuing Education must carry six semester hours of letter grades.)

Warned List

A freshman student whose quality point average is low but not low enough to justify his incurring probation is placed on the warned list.

Such a student does not come under censure, but his participation in co-curricular activities may be limited at the discretion of the Dean.

Writing Standards

In written papers for class assignments, the University requires a quality which meets acceptable standards of good English usage, consistent with University objectives. Faculty members have the option of returning any paper which does not meet acceptable usage standards. If such an assignment is not rewritten to meet these standards, the instructor may reduce the student's grade in the course by one grade mark, e.g., a "B" grade can be reduced to a "C".

Disciplinary Action

Xavier University expects the conduct of its student on and off campus to be in accordance with the standards of Christian living. Should a student violate any University regulation, he/she will be subject to disciplinary measures. In minor cases, the Dean for Student Development will take appropriate action after consultation with the student.
Academic Regulations

Serious cases will be presented before the University Discipline Board. This Board, after hearing the case in accordance with accepted due process, will determine the penalty, if any. The Board has the power to suspend or expel any student found to be in serious violation of any University regulation, though such penalties must be approved by the President.

Loss of Academic Credit

Academic credits for which the student is currently enrolled may be lost by a student who is dismissed from the University before the end of the semester. The permanent record card will not reflect any disciplinary information. Disciplinary records are confidential and are maintained by the Dean for Student Development for a period of five years.

Attendance

In order to secure credit in any course in which he is registered, the student is required to attend classroom and laboratory exercises regularly and promptly. Absences date from the day of opening announced in the calendar.

Absence from a Test

Unexcused absence from a previously announced test may incur the penalty of a failure in that particular test.

Transfer within the University

A student wishing to transfer from the College of Continuing Education to one of the undergraduate day colleges (Arts and Sciences, Business Administration, or Edgecliff College) should make application in the Admissions Office, Buschmann Hall. A student wishing to transfer from one of the undergraduate day colleges to the College of Continuing Education should make application in the office of the College of Continuing Education. Ordinarily, transfer from an undergraduate day college to the College of Continuing Education or from Continuing Education to an undergraduate day college will not be approved for full-time students until after the student has completed two full semesters in the division from which he or she wishes to transfer.

A student wishing to transfer from one undergraduate day college (Arts and Sciences, Business Administration, or Edgecliff College) to another must have a cumulative average of at least 2.0. In addition, the student must consult the Deans of both colleges involved. The Dean of the college the student is leaving should be consulted first, then the Dean of the college the student wishes to enter.

Withdrawal from Courses

A student must withdraw in person and in writing from course(s) for which registration has been completed. A student wishing to withdraw from a course should first discuss the matter with the instructor. The withdrawal must be certified by the student's Dean or the Registrar. A grade of "W" will be assigned for courses from which official withdrawal has been completed. Failure to complete this procedure will result in a "F" grade for the course(s). Withdrawal must be made in the student's office of registration.

Withdrawal from the University

A student who wishes to withdraw from the University must notify the office of the Dean or the Registrar either in person or in writing. A student is considered to be in attendance until he has given this formal notice of withdrawal.

A student will be obliged to withdraw for reasons of poor scholarship, failure to remove academic probation, or misconduct.
Xavier University reserves the right to require a student to withdraw if, in the judgment of University officials, such action would be beneficial to the physical, mental, emotional, or moral best interests of the student or is considered necessary for the welfare of the University.

Honorable Dismissal

Honorable dismissal is voluntary withdrawal from the University with the consent of the Dean or the Registrar. A statement to such effect, indicative of the student’s good standing so far as character and conduct are concerned, will be issued only when all indebtedness to the University has been adjusted.

Transcript Regulations

Application for a transcript of credits must be made in writing by the student and filed with the University Registrar at least two weeks before the record is needed. The request should reflect the student’s signature, the student’s name as recorded on the academic record while in attendance, the student’s I.D., dates of attendance, and any degree earned. Requests for transcripts for purpose of transfer to another university or for any other purpose cannot be granted during the busy periods of examinations and registration. Transcripts are issued only after the student has fulfilled all financial obligations to the University.

There is no charge for the first transcript. A fee of $2.00 is charged for each additional transcript. (The transcript charge enforced at the time the transcript is requested may be different.)

Since the Registrar’s Office does not maintain Graduate School or the College of Continuing Education records, students who have been registered in one of the undergraduate day colleges and later in the Graduate School or the College of Continuing Education must apply to both the Registrar’s Office and the Graduate School or the College of Continuing Education when requesting transcripts.

Auditor

Anyone wishing to audit a course without receiving credit may do so at one-half of the regular tuition rate for the credit course. The audit is put on the transcript only when at the end of the semester the professor certifies that the student has been regular in attendance. It is understood that the one-half tuition rate is applicable only for courses in which there are registration vacancies. Auditor’s rates will not be applicable to courses which become closed to credit students.

Anyone changing from auditor status to credit status must pay the additional fee to equal the normal tuition rate per credit hour. Anyone changing from credit status to auditor after the first class will not receive a tuition reduction but will be billed for a credit registration. No one may change from a credit status to an audit status or from an audit status to a credit status after three weeks from the first day of instruction of the semester.

This auditor policy applies only to undergraduate students.

Requirements for Degrees

1. Candidates for undergraduate degrees must complete the requirements listed under the “Core Curriculum.”
2. They must have attained a C average in the course work of the major. College of Business students must also complete the business core with a C average.
3. They must have at least 120 hours with an overall average of C.
4. They must have completed the last 30 hours at Xavier.
5. They must have filed formal application for the degree.
Registration

6. They must have completed all departmental requirements in the major field and all requirements of their respective college.
7. They must have met all financial obligations to the University.
8. They must be present at Commencement unless formally excused by the Dean of the College.

Graduation Honors

Honors are awarded on the basis of outstanding attainment. A student who has earned a quality-point average of 3.90 in his college work will be graduated *Summa cum Laude*; one who has earned 3.75, *Magna cum Laude*; one who has earned 3.50, *cum Laude*. These honors are inscribed on the student's diploma and recorded on the student's official University record.

Transfer students are eligible for honors at graduation only under the following conditions:

1. They must have completed at Xavier University at least half of the work required for their program.
2. The quality-point average earned for their work at Xavier University must meet the standards given above.

Reservation of Rights

The University reserves the right to modify its graduation and other requirements as may seem necessary from time to time. It will be obligated only during the academic year of the student's registration by requirements published in the catalogue for that year.

Students who interrupt their attendance and who later return must meet the curricular requirements in force at the time of their return.

Studies Outside the United States

Students who desire to study abroad as part of their undergraduate education have a number of possibilities open to them. The student should consult the Chairman of the International Education Committee and the Chairman of the Department of Modern Languages for available opportunities. The program sponsored by Loyola University, Chicago, and the Rome Center of Liberal Arts is especially recommended. Students who wish to spend their sophomore or junior year at the Rome Center are urged to request information in the first semester of the previous year. A full complement of courses is taught by faculty from Loyola and other American and European universities. The transcript of credits is issued from Loyola, Chicago. Xavier University is an affiliate of Loyola University in sponsoring the year abroad at the Rome Center. Information concerning the study of languages and literature in Spain, Colombia, France, and Austria may be obtained from the Department of Modern Languages.

Registration

Time of Registration

Anticipated dates for registration for each session are found in the academic calendar of this catalogue. The semester Schedule Of Classes bulletin should be references for exact registration dates and times and instructions regarding how to register.

Late Registration

Registration after classes begin for a semester may be permitted by the Dean and upon the payment of a late registration fee. This fee is based on the fee schedule for that semester and the student's division.
Change In Schedule

After the student has filed registration forms, changes in courses or sections can be made only with consent of the Dean at the recommendation of the departmental advisor. No change in schedule may be made later than one week after the inception of classes.

(A service charge based on the fee schedule for that semester will be levied for each change.)

Number and Choice of Courses Permitted

The number and choice of courses or total number of credit hours in a student's program of studies are subject to such restriction as shall be deemed necessary by the Dean or the departmental advisor.

Selection of Courses

Students must observe prerequisites set by the University or by the departments which conduct the instruction. Students may not disregard the directions of the Dean and of the chairmen of departments in this matter.

Since the University must consider the needs of all students, it may sometimes be unable to accommodate itself to the preferences of some students for particular hours and professors. The scheduling of courses and sections at certain hours does not mean that a student can always be admitted to any given section which he may select.

Course Repetition

A course previously taken for credit may be repeated. There are, however, several exceptions to this rule. Mt 105 may not be repeated after successful completion of a more advanced Math course. Similarly, an elementary or intermediate foreign language course may not be repeated after successful completion of a more advanced course in the same language.

A student wishing to repeat a Philosophy course should keep the following norms in mind. Since all Area I Philosophy courses have basically the same subject matter and are, therefore, equivalent to one another, any Area I course may be taken as a repeat of any other. The same is true for Area II and Area III courses. Area IV courses, on the other hand, are topically different from one another. Hence, a student wishing to repeat an Area IV course must repeat the same course.

The hours of the repeated course are counted only once. While both the first and second grades are entered on the student's permanent record, only the second grade counts in the student's grade point average.

Honor Societies

Alpha Sigma Nu. A chapter of this national honor fraternity for students of Jesuit colleges and universities was established at Xavier in 1939. Candidates for membership, chosen during their junior or senior year or from the Graduate School, must be outstanding in scholarship, in loyalty, and in service to the University.

Pi Mu Epsilon. The Ohio Theta Chapter of Pi Mu Epsilon, the national honorary mathematics fraternity, was established at Xavier University in 1962. The purpose of this organization is the promotion of scholarly activity in mathematics among students in academic institutions. Membership is limited to graduate and undergraduate students majoring in mathematics or related subjects who have achieved distinction in scholarship and have done outstanding work in mathematics.

Psi Chi. Honorary psychology fraternity.
Honor Societies

**Sigma Pi Sigma.** There is a chapter of Sigma Pi Sigma, national physics honor society, at Xavier University. Its purposes are to serve as a means of awarding distinction to students having high scholarship and promise of achievement in physics; to promote their interest in research; to encourage professional spirit and friendship among physics students; and to popularize interest in physics.

**Tau Kappa Alpha.** Honorary forensic fraternity.

**The Xavier Order of Military Merit.** XOMM is an honorary organization of ROTC students selected annually by representatives from the existing membership of XOMM. The selection of new members is subject to approval by the PMS. Some of the criteria for selection to membership are leadership qualities, military and academic grades, and relative standing in the Cadet Battalion. Members of the order are awarded a red fourragere to be worn as part of the uniform.

**Phi Alpha Theta.** Kappa Nu Chapter of the international honor society in history is open to majors with a 3.25 or better cumulative average.

**Pi Sigma Chi.** Membership in PSC is for students who have completed twelve credit hours in political science (or will complete them in the semester in which they apply). Applicants must have an "A" or "B" in all political science courses and must rank in the upper half of their class.

**Delta Sigma Pi.** The Theta Lambda Chapter of the International Fraternity of Delta Sigma Pi, a professional fraternity in business administration, promotes academic achievement, leadership and brotherhood.

**Kappa Kappa Psi,** organized on campus in 1968, is a national band honorary fraternity that recognizes academic achievement and service.

Xavier University does not practice or condone discrimination, in any form, on the basis of race, color, national origin, religion, sex, age, or handicap.

*This smile isn't staged. Xavier Junior Julie Isphording loves to run—and loves to win. In just three years she has progressed from beginner jogger to one of the nation's top women long-distance runners. Isphording finished second in her first marathon, in Columbus, which qualified her for the 1981 Boston Marathon. There she topped even her own hopes by placing 20th in the women's division. Isphording runs 8-15 miles daily as she plans for future competition, including the first Olympic women's marathon in 1984.*
UNDERGRADUATE DEGREE PROGRAMS
(offered by Colleges indicated)

ASSOCIATE OF SCIENCE
Child Care (Edgecliff College, EC)
Criminal Justice (EC)

ASSOCIATE OF APPLIED SCIENCE
Mortuary Science (EC in cooperation with Cincinnati College of Mortuary Science, CCMS)

ASSOCIATE IN ARTS AND SCIENCES
Chemistry (College of Continuing Education, CCE)
Communication Arts (CCE)
Early Childhood Education (CCE)
English (CCE)
History (CCE)
Modern Languages (CCE)
Nuclear Medical Technology (CCE)
Political Science (CCE)
Psychology (CCE)
Radiologic Technology (CCE)
Sociology (CCE)
Theology (CCE)

ASSOCIATE IN BUSINESS ADMINISTRATION
Accounting (CCE)
General Business (CCE)
Industrial Relations (CCE)
Information Systems/Data Processing (CCE)
Management (CCE)
Marketing (CCE)

ASSOCIATE IN REAL ESTATE (CCE)

BACHELOR OF ARTS
Art:
Art Education (EC)
Art History (EC)
Art Therapy (EC)
Fine Crafts (EC)
Hand Crafts (EC)
Classics (College of Arts and Sciences, A&S)
Economics (A&S)
English (A&S and CCE')
History (A&S and CCE')
Humanities (CCE)
International Affairs (A&S)
Modern Languages (A&S)
Music (EC)
Philosophy (A&S and CCE')
Political Science (A&S and CCE')
Sociology (A&S and CCE')
Theater Arts (EC)
Theology (A&S and CCE')

BACHELOR OF SCIENCE
Applied Biology:
Forestry (A&S)
Environmental Management (A&S)
(both in cooperation with Duke University)
Applied Science/Engineering (A&S in cooperation with University of Cincinnati)
Biology (A&S)
Chemical Science (A&S and CCE')
Communication Arts (A&S and CCE')
Computer Science (A&S)
Consumer Science:
Fashion Merchandising (EC)
General Consumer Science (EC)
Criminal Justice (EC)
Elementary Education (A&S and CCE')
Mathematics (A&S and CCE')
Medical Technology (A&S)
Montessori Education:
Pre-primary (A&S and CCE')
Elementary (A&S and CCE')
Mortuary Science (EC in cooperation with CCMS)
Music Education (EC)
Natural Sciences:
Premedical (A&S)
Predental (A&S)
Nuclear Medical Technology (CCE)
Physical Education and Health (A&S)
Physics (A&S)
Psychology (A&S and CCE')
**Undergraduate Degree Programs**

Secondary Education (A&S and CCE)
Social Studies (CCE)
Special Education:
   Educable Mentally Retarded (A&S)
   Learning and Behavior Disorders (A&S)
   Moderately, Severely and Profoundly Retarded (A&S)

**BACHELOR OF GENERAL STUDIES (CCE)**

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**

Accounting (College of Business Administration, CBA and CCE)
Economics (CBA and CCE)
Finance (CBA)
General Business (CCE)
Industrial Relations (CBA and CCE)
Information Systems (CBA and CCE)
Management (CBA and CCE)
Marketing (CBA and CCE)

**BACHELOR OF FINE ARTS (EC)**

**BACHELOR OF SCIENCE IN NURSING (EC)**

(Degree completion program for Registered Nurses)

**BACHELOR OF SCIENCE IN SOCIAL WORK (EC)**

**SPECIAL PROGRAMS**

Prepharmacy (two year) (A&S)
Honors A.B. Program (A&S)
University Scholars' Program (A&S)
Liberal Arts Degree with Business Option (A&S)
Bachelor’s Degree plus M.B.A. in four years (A&S)

*Students must be able to attend some day classes or, for education certification requirements, participate in daytime classroom observation.

Marion Hall was established in 1958 as the men’s Honors Residence of Xavier University. The Hall is an old Victorian mansion which houses thirty-five students and two Jesuits.
Even with the pressure of writing essays and studying for exams, the urge to play in new-fallen snow is irresistible. Curly eyelashes add a feminine touch to a snow sculpture.
The Honors Bachelor of Arts is awarded to students who complete the Honors Program of the University. The Honors Program has been designed to prepare students for life in the modern world by trying not only to develop breadth, balance, and an openness to new ideas, but also to examine the roots from which our culture has sprung, and thereby to develop a sense of history and a feeling for tradition.

A limited number of selected students are admitted to the Honors Program. Candidates for the Program are expected to rank high in their high school classes, and ordinarily they should have four years of high school Latin, although special arrangements can be made for those with less.

Honors Students are required to fulfill the regular University core curricular requirements. The following modifications also apply to the Honors Program: whenever possible, special honors sections, or the more demanding sections, of required courses should be taken; the humanities requirement is fulfilled with 12 hours of English literature; the social science requirement is normally fulfilled either with 12 hours of history or with 6 hours of history and 6 hours of economics; the six hours of mathematics should include calculus; the science course should be General Chemistry, or General Biology-Zoology, or University Physics; a total of 21 hours of philosophy is required; and the special classical orientation of this Program is provided by 18-22 hours of Greek, 21 hours of Latin, and six hours of the History of Classical Literature.

The student should note that the possibility of some 36 elective hours enables the superior student to cover premedical or prelaw requirements, or to do concentrated work in almost any of the major fields offered by the University in addition to completing an intensive program in liberal arts.

The Program is designed to produce educated and cultured men and women rather than trained professionals. Such a goal is no apology for the program. Additionally, graduates of the Program over the past quarter of a century have in fact attained significant success in a variety of professions—in law and medicine, in business and various academic disciplines, in teaching, engineering, religious life, etc.
Honors Bachelor of Arts
Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
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<td>Freshman Year</td>
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<tr>
<td>En 115—Rhetoric</td>
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<tr>
<td>Gk 172—Plato* or</td>
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<tr>
<td>Gk 101—Elem. Greek</td>
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<tr>
<td>Hs**—Elective</td>
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<tr>
<td>Lt 221—Cicero</td>
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<tr>
<td>Mt 150—Elements of Calculus I</td>
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<tr>
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<td>Total 15-17</td>
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</table>

| Sophomore Year | |
| Science Elective*** | 4 | Science Elective*** | 4 |
| Gk 260—Sophocles | 3 | Gk 331—Thucydidides | 3 |
| Lt 214—Latin Prose Style | 3 | Lt 231—Horace: *Odes* | 3 |
| Pl 200—Origins of Phil. | 3 | Philosophy Area I | 3 |
| Th 111—Intro. to Theology | 3 | Theology Elective | 3 |
| Elective@ | 3 | Elective@ | 3 |
| | Total 19 | Total 19-20 | |

| Junior Year | |
| Literature Elective (Eng.) | 3 | Literature Elective (Eng.) | 3 |
| Gk 371—Plato: *Republic* | 3 | Gk 251—Homer: *Iliad* | 3 |
| Ec or Hs—Elective | 3 | Ec or Hs—Elective | 3 |
| Lt 391—Lucretius | 3 | Lt 312—Tacitus: *Annals* | 3 |
| Philosophy Area II | 3 | Philosophy Area III | 3 |
| Theology Elective | 3 | Electives@ | 6 |
| Elective@ | 3 | Elective@ | 3 |
| | Total 15-21 | Total 15-21 | |

| Senior Year | |
| Gk 388—Hist. of Greek Lit. | 3 | Lt 388—Hist. of Latin Lit. | 3 |
| Lt 356—Roman Satire | 3 | Philosophy Area IV Electives | 6 |
| Philosophy Area IV Elective | 3 | Electives@ | 12 |
| Theology Elective | 3 | | |
| Electives@ | 9 | | |
| | Total 12-21 | Total 12-21 | |

* Students having two units of high school Greek or its equivalent will register for Gk 172. Others will take Gk 101.

** Honors AB students may satisfy the history requirement with any sequence of history courses approved by the Honors AB Director.

*** See description of honors core requirements in science on preceding page.

@ Students need not take all 36 elective hours; any semester schedule above 18 hours requires the approval of the Director.
University Scholars' Program

The University Scholars' Program is an honors program for serious and talented students. University Scholars may major in any of Xavier's undergraduate degree programs, or they may elect to design their own individualized interdisciplinary major.

University Scholars receive, according to their major area of study, an A.B. (Scholars Curriculum), a B.S. (Scholars Curriculum), or a B.S.B.A. (Scholars Curriculum).

An interview with the Director of the Scholars' Program is required for admission. Students are admitted to the program prior to or during their freshman year of studies.

A summary of the Scholars' Program curriculum follows:

1. A minimum of 5 High Intensity Courses (HIP), or their equivalents, in the following core-curricular subjects:
   - Philosophy, Area I (Philosophy of the Human Being), Area II (Metaphysics), Area III (Ethics), Area IV (Elective).
   - Th 111 Introduction to Theology, or any other HIP Theology course.
   - Hs 141 Ideas and Institutions I
   - Hs 142 Ideas and Institutions II
   - or any European History courses approved by the Director.
   - Ec 101 Macroeconomic Principles
   - Ec 102 Microeconomic Principles
   - Pre-Med students may substitute General Psychology for one course in economics.

2. At least one University Scholars' Seminar:
   These seminars are offered every semester. A Scholar is required to take at least one before graduation, although he or she may take as many as three. Only sophomore, junior, or senior Scholars are to enroll in these seminars, which may satisfy appropriate Scholars' core-curricular requirements in philosophy, theology, literature, or mathematics.

3. Two courses in literature at the recommendation of the Director.

4. Elements of Calculus I and II (Mt 150, 151) or their equivalent.
   Pre-Meds may substitute a course in statistics for one of the courses in calculus.

5. Two sequential courses in one natural science: either Bl 180-181, General Chemistry, General Zoology, or University Physics.

6. A basic knowledge of a foreign language—the equivalent of the introductory and intermediate courses in a language.

7. Advanced upper division work (4 courses) in an area outside the Scholar's major, including, when available, student-faculty seminars for juniors and seniors in economics, the humanities, or interdisciplinary areas, if the latter are designated as HIP courses.
   The remaining core curriculum requirements in philosophy and theology should be taken as seminars or in HIP sections, whenever they are available.

Guidelines for Scholars' Program
Interdisciplinary Major Option

1. The student shall write a brief statement in which he describes his individualized interdisciplinary major, explains his reasons for electing it, and identifies some courses that would fulfill its purposes. This statement is submitted to the Director.

2. The Director shall constitute an advisory committee for the student. This committee shall consist of the Director and one or two faculty members in specific subject areas covered by the proposed interdisciplinary major.
3. The committee shall evaluate the proposed major in terms of its coherence and intellectual seriousness and in terms of faculty, curricular, and library resources. If necessary, it could suggest modifications of the student's proposal. A member of the committee would serve as the student's major advisor.

4. The major shall consist of at least eight 200-level or above courses.

5. The committee and the student shall determine an appropriate senior activity for the student to demonstrate his grasp of or proficiency in his major. This might be a senior thesis (for which credit might be given) or a written or oral comprehensive examination.

Prelegal Study

The basic criteria for acceptance into law school are the grade point average required during undergraduate studies and performance on the Law School Admission Test (LSAT). Application forms and information regarding the dates of this test can be obtained from the Dean's office of the student's college. The importance attached to letters of recommendation, job experience, and extracurricular or community activities varies greatly among law schools. The competition for admission to law schools today is intense and not all law school graduates are finding law-related jobs. The law school applicant should strive to accumulate a very adequate background.

American law schools prescribe neither specific courses nor a specific major for prelaw study. They do insist on a broad program of high quality in liberal arts. The degree program should educate the students to assimilate difficult documents and to interpret factual data, to think logically and creatively, to express themselves well orally and in writing, and to acquire a critical understanding of the human institutions and values with which the law deals. While there is no such thing as a prelaw program, it does not follow that all courses or majors are of equal value for the study of law. Some subjects (not necessarily majors) to which law schools attach special importance are English, government, economics, history, mathematics, Latin or foreign language, logic, scientific method, and philosophy. Courses in accounting and public speaking are also recommended.

Students considering law as a career are urged to read the introductory section of the official Prelaw Handbook and to consult with both their departmental chairman and one of the Prelaw Advisors. They are also encouraged to join the St. Thomas More Prelaw Society.
THE BACHELOR OF SCIENCE (Biology)

The biology curriculum includes a core presenting current concepts of the molecular, cellular, organismal, and population levels of biological organization. It also offers electives to encourage students to acquire some depth in these areas. Lectures and laboratory procedures present basic biological principles, experience in careful observation, controlled experimentation, and thoughtful analysis of scientific data. The major requires 36 semester hours in biology.

A student's program contributes to his liberal arts education and prepares him for career opportunities in the following areas:

1. Graduate study.
2. Entrance to schools of medicine, dentistry, veterinary medicine, optometry, and podiatry.
3. Teaching biology at the high school level.
4. Specialized employment.

Students planning graduate study, teaching, or similar employment complete General Biology, General Zoology, General Botany, Bacteriology, Genetics, Vertebrate Physiology, and Methods of Biological Research (25 hours) and remaining hours (11) of BI electives.

Those anticipating entrance to medical or dental schools complete General Biology, General Zoology, Bacteriology or General Botany, Genetics, Vertebrate Physiology, and Methods of Biological Research (21 hours), twelve recommended hours including Embryology, Comparative Anatomy, General Histology, and remaining hours (3) of BI electives.

Students planning application to schools of veterinary medicine should consult with the Department Chairman for current listing of courses required for admission.

Majors must complete two semesters of physics, four of chemistry (through organic), and two of mathematics (statistics and calculus). The Chairman advises students as to course sequence and prerequisites for courses. With his approval, majors may substitute courses to fulfill requirements.
# B.S. (Biology)
## Recommended Sequence of Program

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Freshman Year@</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
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</tr>
<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
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<tr>
<td>Mt 150—Elements of Calculus</td>
<td>3</td>
<td>Mt 156—General Statistics</td>
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<td>Foreign Language</td>
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<tr>
<td>Total</td>
<td>14</td>
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<td>18</td>
</tr>
</tbody>
</table>

| Sophomore Year | | | |
| Bl 200—Gen. Botany | 2 | Bl 212-213—Bacteriology or Biology Elective | 2-4 |
| Bl 201—Gen. Botany Lab | 2 | | |
| Ph 104—College Physics I | 3 | Ph 106—College Physics II | 3 |
| Ph 105—Introductory Physics Lab | 1 | Ph 107—Introductory Physics Lab | 1 |
| Foreign Language | 3 | Foreign Language | 3 |
| Th 111—Intro. to Theology | 3 | Philosophy Area I | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective (Lit.) | 3 |
| Total | 17 | Total | 15-17 |

| Junior Year | | | |
| Bl 360-361—Vert. Physiology or Biology Elective | 2-4 | Bl 230—Genetics or Biology Elective | 2-4 |
| Ch 240—Organic Chemistry I | 3 | Ch 242—Organic Chemistry II | 3 |
| Ch 241—Organic Chemistry I Lab | 1 | Ch 243—Organic Chemistry II Lab | 1 |
| History I (100-level Elective)** | 3 | History II (100-level Elective)** | 3 |
| Philosophy Area II | 3 | Philosophy Area III | 3 |
| Humanities Elective | 3 | Theology Elective | 3 |
| Total | 15-17 | Total | 15-17 |

| Senior Year | | | |
| Bl—Biology Electives | 4-8 | Bl—Biology Electives | 4-8 |
| Bl 398—Methods of Biol. Research I | 1 | Bl 399—Methods of Biol. Research II | 1 |
| Theology Elective | 3 | Philosophy Area IV | 3 |
| Social Science Elective | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Social Science Elective | 3 |
| Total | 14-18 | Total | 14-18 |

* Required, unless exempted through a test-out program. See page 38.
@ Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshman year and the start of language studies postponed to the sophomore or junior years. See Language requirements, page 38.
** See Curricular Requirements, page 36.
THE BACHELOR OF SCIENCE (Chemistry)

The Department of Chemistry offers a comprehensive curriculum leading to the Bachelor of Science degree. The program covers the four major fields (inorganic, analytical, organic, and physical chemistry), the preparation and identification of compounds, and the literature on the subject. Ch 190 (Chemical Literature) fits the student to prepare his thesis and amounts to a beginning course in research.

Departmental requirements for a major include:


3. The requirements in the major total 44 semester hours.

4. The requirements in mathematics total 12 semester hours: Mt 170, 171, 172, and CS 124.

5. University Physics, (Ph 108, 105, 110, and 107) is required.

Xavier University is approved by the American Chemical Society for its training in chemistry, and students completing the approved program of studies are graduated as "certified" chemistry majors.
B.S. (Chemistry)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Freshman Year</td>
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<td></td>
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</tr>
<tr>
<td>Ch 110—General Chemistry I</td>
<td>3</td>
<td>Ch 112—General Chemistry II</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<td>Ch 115—General Chemistry II Lab</td>
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<td>Mt 170—Calculus I</td>
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<td>Mt 171—Calculus II</td>
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<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
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<tr>
<td>En 101—English Composition</td>
<td>3</td>
<td>Foreign Language</td>
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<td>Foreign Language</td>
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<td>History I (100-level Elective)</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td>Sophomore Year</td>
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<tr>
<td>Ch 230—Physical Chemistry I</td>
<td>3</td>
<td>Ch 232—Physical Chemistry II</td>
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</tr>
<tr>
<td>Mt 172—Calculus III</td>
<td>3</td>
<td>Ph 110—Univ. Physics II</td>
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<td>Ph 108—Univ. Physics I</td>
<td>3</td>
<td>Ph 107—Physics Lab II</td>
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<td>Ph 105—Physics Lab I</td>
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<td>History II (100-level Elective)</td>
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<tr>
<td>Junior Year</td>
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<tr>
<td>Ch 239—Physical Anal. Meas. III Lab</td>
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<td>Ch 281—Instrumental Analysis Lab</td>
<td>2</td>
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<td>Ch 240—Organic Chemistry I</td>
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<td>Ch 241—Organic Chemistry I Lab</td>
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<td>Ch 280—Instrumental Analysis</td>
<td>3</td>
<td>Ch 330—Physical Chemistry III</td>
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<td>Theology Elective</td>
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<td>Ch 398—Chemical Research I</td>
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<td>Ch 190—Chemical Literature</td>
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<td>Ch 300—Seminar</td>
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<td>Senior Year</td>
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<tr>
<td>Ch 250—Qualitative Organic Anal</td>
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<td>Ch 340—Topics in Organic Chem</td>
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<td>Ch 260—Inorganic Chemistry</td>
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<td>Ch 399—Chemical Research II</td>
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<td>Chemistry Elective</td>
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<td>Ch 300—Seminar</td>
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<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>13</td>
</tr>
</tbody>
</table>

* Required, unless exempted through a test-out program.

@ See Language Requirement page 38. A student may continue in a language (Classical or Modern) which he has commenced in high school. If he chooses to begin the study of a new foreign language, the department recommends German or Russian.

** Must be taken in Fall semester if Biochemistry is selected.

*** See Curricular Requirements, page 36.
THE BACHELOR OF SCIENCE
(Chemical Science)

In addition to the B.S. (Chemistry) program the Department of Chemistry offers a program which leads to the degree of Bachelor of Science (Chemical Science). This program is intended primarily for those students who wish to make use of chemical knowledge in connection with a career in the business world, e.g., in sales or marketing, or in secondary education.

The course requirements in chemistry and mathematics are less than those of the B.S. (Chemistry) program. The hours thus released are made available as free elective hours which then can be applied to courses in accounting, business administration, economics, education, etc.

Where specific program requirements exist, they are indicated in the block schedule on the facing page. Substitutions can be made with permission of the Chairman of the Department.

The degree program requires 31-32 semester hours in the major. College Physics, (Ph 104, 105, 106, and 107), is required. Mt 149 and 150 fulfill the University mathematics requirement.

While a thesis is not required in the Chemical Science program, a student may elect Chemical Research (398, 399) in place of two hours of chemistry electives. In such a case the comprehensive examination requirement is waived.
# B.S. (Chemical Science)
## Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
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<td><strong>Freshman Year</strong></td>
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<td>Ch 110—Gen. Chemistry I</td>
<td>Ch 112—Gen. Chemistry II</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
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<tr>
<td>History (100-level Elective)**</td>
<td>History II (100-level Elective)**</td>
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<td>Th 111—Intro. to Theology</td>
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<td>En 101—English Composition*</td>
<td>Foreign Language</td>
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<td>Foreign Language**</td>
<td>Mt 149—Elementary Functions</td>
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<td><strong>Sophomore Year</strong></td>
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<tr>
<td>Ch 120—Prin. of Phys. Chem.</td>
<td>Ph 106—College Physics II</td>
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<td>Ch 151—Analytical Chemistry</td>
<td>Ph 107—Introductory Physics Lab II</td>
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<td>Ph 104—College Physics I</td>
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<td>Ph 105—Introductory Physics Lab I</td>
<td>Social Science Elective</td>
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<td>Mt 150—Elements of Calculus I</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td><strong>Junior Year</strong></td>
<td><strong>Junior Year</strong></td>
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<tr>
<td>Ch 240—Organic Chemistry I</td>
<td>Ch 242—Organic Chemistry II</td>
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<td>Ch 241—Organic Chemistry I Lab</td>
<td>Ch 243—Organic Chemistry II Lab</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Ch 190—Chemical Literature</td>
<td>Philosophy Area III</td>
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<td><strong>Senior Year</strong></td>
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<tr>
<td>Ch 280—Instrumental Analysis</td>
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<td>Social Science Elective</td>
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<td>Ch 300—Seminar</td>
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</tbody>
</table>

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, page 36.
THE BACHELOR OF ARTS (Classics)

The A.B. degree in classics is designed to bring students into intimate contact with the world of the ancient Romans or Greeks through the study of their language and literature. It introduces them to that era when Western man was for the first time in recorded history dealing with and recording many of the same problems and questions with which we are still grappling today.

Students are expected to complete 6-12 lower division hours in Latin or Greek (the amount of lower division work depending on whether they have had two or more years of that language in high school) plus 21 hours of upper division work. They are expected also to complete 10-12 hours of a second foreign language in addition to the core requirements of the college. This should leave at least 15 hours available for free electives. Finally, the classics major is expected to pass a comprehensive examination.

The degree program provides a substantial number of hours in electives, in addition to the elective requirements in the various University core curriculum requirements. These elective hours can be used to meet a specific student interest or need.
# A.B. (Classics)
## Recommended Sequence of Program

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>En 101—English Composition*</td>
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<td>History II (100-level Elective)**</td>
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<td>History I (100-level Elective)**</td>
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<td>Lt 115—Interm. Latin*</td>
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<td>ML* or Gk</td>
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<td>Philosophy Area I</td>
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<td>15-17</td>
<td><strong>Total</strong></td>
<td>15-17</td>
</tr>
</tbody>
</table>

| **Sophomore Year** | | | |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Lt 125—Selected Latin Readings | 3 | Lt—Elective | 3 |
| ML or Elective | 3 | ML or Elective | 3 |
| Science Elective | 3 | Philosophy Area II | 3 |
| Th 111—Intro. to Theology | 3 | Science Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Junior Year** | | | |
| Electives | 6 | Elective | 3 |
| Lt—Elective | 3 | Lt—Elective | 3 |
| Social Science Elective | 3 | Philosophy Area III | 3 |
| Theology Elective | 3 | Social Science Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** | | | |
| Elective | 3 | Electives | 9 |
| Lt—Electives | 6 | Lt—Electives | 6 |
| Philosophy Area IV | 3 | | |
| Theology Elective | 3 | | |
| **Total** | 15 | **Total** | 15 |

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, page 36.
THE BACHELOR OF ARTS
(Classical Humanities)

This program is designed to offer a major for those students who have an interest in the ancient world but prefer breadth rather than specialization in their undergraduate education or seek to pursue the equivalent of a second major. This program combines the minimum number of course requirements with a maximum number of elective courses. The twenty-four hours of study of the ancient Greek and Roman world will give the student a somewhat intensive knowledge of the culture, which in time and place is far removed from our own but which has exercised a very strong influence on modern civilization. The degree is not intended in itself as preparation for any graduate program.

The student is expected to take six hours of Latin or Greek literature in the original language beyond the general foreign language core requirement. The foreign language requirement is fulfilled by taking 12 hours of Latin or 10 hours of Greek; students with two or more years of high school Latin may take nine or less hours of Latin for this core requirement, dependent upon a qualifying examination.

In addition, the student will complete 18 hours of the non-language classics courses offered by the department.
# A.B. (Classical Humanities)

## Recommended Sequence of Program

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<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Lt 101, 115 or 125</td>
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<td>Lt 102, 151 or 161</td>
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<tr>
<td>or Gk 101</td>
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<td>or Gk 102</td>
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<td>History II (100-level Elective)**</td>
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<td>Mt—Elective</td>
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</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15-17</td>
<td><strong>Total</strong></td>
<td>15-17</td>
</tr>
</tbody>
</table>

| Sophomore Year | | | |
| Lt 125 or Lt (200-300 level course) | 3 | Lt 161 or Lt (200-300 level course) | 3 |
| or Gk (200-300 level course) | 3 | or Gk (200-300 level course) | 3 |
| Science Elective | 3 | Science Elective | 3 |
| Theology Elective | 3 | Philosophy Area II | 3 |
| CI—Elective | 3 | CI—Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| Junior Year | | | |
| Lt (200-300 level course) | 3 | Lt (200-300 level course) | 3 |
| or Elective | 3 | or Elective | 3 |
| Theology Elective | 3 | Philosophy Area III | 3 |
| CI—Elective | 3 | CI—Elective | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| Elective | 3 | Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| Senior Year | | | |
| Humanities Elective | 3 | CI—Elective | 3 |
| Theology Elective | 3 | Electives | 12 |
| Philosophy Area IV | 3 | | |
| CI—Elective | 3 | | |
| Elective | 3 | | |
| **Total** | 15 | **Total** | 15 |

* Required, unless exempted through a test-out program. See page 38.

** See Curricular Requirements, pages 36-37.
Communication is the heartbeat of today's complex society. It can spell major success or failure for ourselves, the community, the nation, and the world. No longer may today's college students—tomorrow's leaders—neglect the study of communication as the basis of human action involving individuals, groups, societies, business, skilled technicians, and the professions.

The CA major will help students understand theories of communication and form positive attitudes toward the roles they will play in society. Emphasis on basic skills in written and spoken communication permeates all CA areas of concentration: Communication-Marketing (C-Mk), Film-Photography (F-Ph), Print-Broadcast Journalism (PBJ), Public Relations (PR), and Radio-Television (R-TV), with hands-on experience in related labs. The F-Ph area uses the Photography Lab; the PBJ and R-TV areas, WVXU-FM and the TV Center; the PBJ and PR areas utilize the Typing Lab for writing courses.

Students select one of five areas, taking three courses in first year when specialization is begun. Following basic studies are area courses and electives, some electives being available from other than the chosen area of concentration. Departmental guidance is necessary with attention to the main features of the Course Sequence (below) and the general block schedule (opposite page). To the thirty-hour major, an additional six hours of CA courses may be added. Proficiency in writing skills is required in all courses, and continued improvement in writing, speaking, and typing skills is expected. Students extremely weak in writing skills will be urged and may be required to take CA 206 Effective Writing. Senior comprehensive exams or a departmental substitute complete the requirements.

**Course Sequence for CA Areas of Concentration**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Freshman Year</td>
</tr>
<tr>
<td>C-MK</td>
<td>CA Speech Elective</td>
</tr>
<tr>
<td>F-Ph</td>
<td>CA Speech Elective</td>
</tr>
<tr>
<td>PBJ</td>
<td>CA Speech Elective</td>
</tr>
<tr>
<td>PR</td>
<td>CA Speech Elective</td>
</tr>
<tr>
<td>R-TV</td>
<td>CA 203</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sophomore Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C-Mk</td>
<td>CA 204</td>
<td>CA Restricted <em>1</em></td>
</tr>
<tr>
<td>F-Ph</td>
<td>CA 204</td>
<td>CA 213</td>
</tr>
<tr>
<td>PBJ</td>
<td>CA 238</td>
<td>CA 239</td>
</tr>
<tr>
<td>PR</td>
<td>CA 238</td>
<td>CA 239</td>
</tr>
<tr>
<td>R-TV</td>
<td>CA 219</td>
<td>CA 220 and CA 221</td>
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<table>
<thead>
<tr>
<th></th>
<th>Junior Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>C-Mk</td>
<td>BA 270 and CA Restricted <em>2</em></td>
<td>Mk 202</td>
</tr>
<tr>
<td>F-Ph</td>
<td>CA 211 and CA 212</td>
<td>CA 214</td>
</tr>
<tr>
<td>PBJ</td>
<td>CA 241 and CA Elective</td>
<td>CA 242</td>
</tr>
<tr>
<td>PR</td>
<td>CA 251 and CA Elective</td>
<td>CA 253</td>
</tr>
<tr>
<td>R-TV</td>
<td>CA 222 and CA 232</td>
<td>CA 223</td>
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<table>
<thead>
<tr>
<th></th>
<th>Senior Year</th>
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<tbody>
<tr>
<td>C-Mk</td>
<td>Mk 250</td>
<td>CA or Mk Elective</td>
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<td>F-Ph</td>
<td>CA Elective</td>
<td>CA Elective</td>
</tr>
<tr>
<td>PBJ</td>
<td>CA 243</td>
<td>CA Elective</td>
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<tr>
<td>PR</td>
<td>CA 254</td>
<td>CA Elective</td>
</tr>
<tr>
<td>R-TV</td>
<td>CA 233 and CA Elective</td>
<td>CA 234</td>
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*Consult department for further details.
### B.S. (Communication Arts)

#### Recommended Sequence of Program
(Refer to CA Area Course Sequence on preceding page)

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CA</td>
<td>3</td>
<td>CA</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language**</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>3</td>
<td>CA</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

| **Sophomore Year** |            |                 |           |
| CA | 3 | CA | 3 |
| Foreign Language | 3 | Foreign Language | 3 |
| Science Elective | 3 | Science Elective | 3 |
| Humanities Elective (Lit.) | 3 | Philosophy Area II | 3 |
| Mathematics Elective** | 3 | Mathematics Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Junior Year** |            |                 |           |
| CA† | 3 | CA | 3 |
| Elective | 3 | Social Science Elective | 3 |
| Social Science Elective | 3 | Theology Elective | 3 |
| Philosophy Area III | 3 | Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** |            |                 |           |
| CA† | 3 | CA† | 3 |
| Philosophy Area IV | 3 | Humanities Elective (Lit.) | 3 |
| Theology Elective | 3 | Theology Elective | 3 |
| Elective | 3 | Elective | 3 |
| Elective | 3 | Elective | 3 |
| **Total** | 15 | **Total** | 15 |

* Required, unless exempted through a test-out program. See page 38.

** See Curricular Requirements, pages 36-38.

† At this sign, R-TV adds a one-hour lab.
THE BACHELOR OF SCIENCE
(Computer Science)

Computer technology has revolutionized society's methods for processing information. All indications point to accelerated computer usage. Typical computer careers include its application in such areas as accounting, economics, engineering, law, mathematics, medicine, and the sciences. Other positions include research in computer science, computer design, computer product marketing and sales, technical writing, and teaching.

As technology progresses, so must the intelligent use of that technology. Xavier's program is designed to develop, within the framework of a liberal education, the knowledge, skills, and creative analytical ability required for a productive career in computer-related fields and for graduate work in computer science or other areas. The computer science major requires a minimum of 30 semester hours in computer science and an additional 29 semester hours in technical areas. Included in the latter are the first four courses required of mathematics majors. Some students elect to complete a second major in mathematics or liberal arts areas such as history.

Students entering the computer science program should have a background in algebra sufficient to begin a serious study of calculus. Students with math SAT below 520 or math ACT below 25 are admitted to the program only conditionally.

Computer science majors are urged to become active members of the Xavier University Student Chapter of the Association for Computing Machinery.
# B.S. (Computer Science) Recommended Sequence of Program

## First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 124 — &quot;BASIC&quot; Programming</td>
<td>1</td>
</tr>
<tr>
<td>CS 126 — Intro. to Computing</td>
<td>3</td>
</tr>
<tr>
<td>Mt 170 — Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>En 101 — English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>History I</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 17

## Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 138 — Numerical Computations</td>
<td>3</td>
</tr>
<tr>
<td>Mt 171 — Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mt 172 — Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>History II</td>
<td>3</td>
</tr>
<tr>
<td>Th 111 — Intro. to Theology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 16

## Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 255 — Assembler Language</td>
<td>3</td>
</tr>
<tr>
<td>Mt 220 — Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
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Total: 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 256 — Assembler Project</td>
<td>1</td>
</tr>
<tr>
<td>CS 325 — Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>CS-CSR Elective@</td>
<td>3</td>
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</tbody>
</table>

Total: 16

## Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CS 335 — Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 265 — Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective**</td>
<td>3</td>
</tr>
<tr>
<td>Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area III</td>
<td>3</td>
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</table>

Total: 16

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 355 — Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS Elective†</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
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</tbody>
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Total: 16

## Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CS 395 — C.S. Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CS-CSR Elective</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area IV</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
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<tr>
<td>Social Science Elective</td>
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Total: 14

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 390 — Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>CS-CSR Elective</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 15

* Required, unless exempted through a test-out program. See page 38.
† CS elective approved by advisor.
@ CSR (Computer Science related electives) are courses in such areas as business, mathematics, or science, approved by advisor.
** Students are required to elect a major level, 8-hour, science elective.

Seniors must fulfill the comprehensive examination and GRE requirements.
THE BACHELOR OF ARTS (Economics)

The Bachelor of Arts degree in economics is offered to those who wish to take the traditional liberal arts program. The curriculum of an economics major is designed to satisfy the student's desire for a broad liberal arts background and to provide a general, but thorough, understanding and appreciation of economic activity. As an economics major, the student is provided with a knowledge of the economic system of the United States as well as the concepts, tools of analysis, concerns, and points of view of professional economists. After having grasped the basic analytical tools of the profession, students analyze such problem areas as inflation, unemployment, government regulation, competition, monopoly, and international trade.

The economics major serves as an excellent background for a career in business or government. It is also a very appropriate major for law school, since many of the contemporary legal issues and controversies arise from problems in the economic system. Finally, the major prepares the student for advanced study of economics or business administration at graduate schools throughout the country.

Requirements in the major include: Ec 101 Macroeconomic Principles; Ec 102 Microeconomic Principles; Ec 200 Microeconomic Analysis; Ec 201 Macroeconomic Analysis; and twenty-one (21) hours of economics electives,* at least six (6)** of which must be at the 300 level.

* Up to six (6) hours of industrial relations courses may be substituted for up to six (6) hours of economics courses.

** Ec 335 Public Finance and/or Ec 345 International Economics must be included.
A.B. (Economics)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
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<td>History II (100-level Elective)**</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language**</td>
<td>3</td>
<td>Foreign Language**</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Mt 146—Elementary Statistics</td>
<td>3</td>
<td>Mt 150—Elements of Calculus I***</td>
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<tr>
<td>Total</td>
<td>15</td>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

| **Sophomore Year** |          |                |           |
| Ec 101—Macroeconomic Principles | 3 | Ec 102—Microeconomic Principles | 3 |
| Science Elective | 3 | Science Elective | 3 |
| Theology Elective | 3 | Philosophy Area II | 3 |
| Foreign Language | 3 | Foreign Language | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Total | 15 | Total | 15 |

| **Junior Year** |          |                |           |
| Ec 200—Microeconomic Analysis | 3 | Ec 201—Macroeconomic Analysis | 3 |
| Theology Elective | 3 | Philosophy Area III | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| Economics Elective*** | 3 | Economics Elective*** | 3 |
| Elective | 3 | Elective | 3 |
| Total | 15 | Total | 15 |

| **Senior Year** |          |                |           |
| Economics Electives*** | 6 | Economics Electives*** | 9 |
| Elective | 3 | Elective | 3 |
| Philosophy Area IV | 3 | Humanities Elective | 3 |
| Theology Elective | 3 |              |           |
| Total | 15 | Total | 15 |

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, pages 36-38.
*** Some students may find it necessary to use one of their free electives to take Mt 149. Elementary Functions prior to taking Mt 150 Elements of Calculus I.
**** See requirements for concentration on previous page (page 68).
TEACHER CERTIFICATION

Elementary School

The B.S. (Elementary Education) program is a major in elementary education and leads to University recommendation for State certification to teach grades one through eight in Ohio. This program is outlined in the four-year schedule for elementary education (next page). Students also wishing to teach Kindergarten should see footnote in the same schedule. Information and counseling are available in the Teacher Education and Placement Office, 14 Alter Hall.

Secondary School

The sequential courses in education are planned to provide the required preparation for teaching in secondary schools of Ohio. Recommendation for State certification is made by Xavier University after completion of all requirements. Students should begin their programs in the first semester of the sophomore year.

Each student must be formally accepted in writing into the teacher education program before he or she takes his first course in education. This acceptance is given in the Teacher Education and Placement Office, 14 Alter Hall.

Prior to the semester in which he or she plans to do student teaching, the student must receive formal permission from the Director of the Secondary or Physical Education Program as applicable in order to assure placement.

The minimum professional requirements for high school certification in Ohio are attained at Xavier University by the following:

2. For teaching particular subjects (history, English, etc.), the student must consult the specific state requirements of each subject. Copies of these requirements may be secured in the Teacher Education and Placement Office, 14 Alter Hall.
3. For teaching health and physical education, the student must follow the B.S. (Physical Education and Health) program. Information and counseling are available at the Physical Education Office in the Xavier University Fieldhouse.

Montessori Education

There are two Montessori programs available to undergraduate students: 1) The Bachelor of Science (Montessori Elementary Education) for state certification as kindergarten-elementary teacher (K-8) and for American Montessori Society certification as Montessori Elementary teacher; and 2) The Bachelor of Science (Montessori Education) for work with children of pre-school age in the Montessori setting and state certification K-8. Both programs require a full semester internship arranged by Xavier University.

Specific counseling of each student is given by an adviser within the Montessori program. Details regarding these programs are available through the Chairman of the Department of Education.

Outside of Ohio

Students desirous of meeting professional requirements of other states should obtain an official statement of specific requirements from the Department of Education of their respective states. They should consult the Teacher Education and Placement Office before registering for courses in education.
# B.S. Elementary Education (Grades 1-8)  
## Recommended Sequence of Program

### First Semester  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>En 101</td>
<td>English Composition</td>
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<tr>
<td>Ed 300</td>
<td>Intro. to Elem. Ed.+</td>
<td>3</td>
</tr>
<tr>
<td>Ed 101</td>
<td>Field Experiences: Elem.*</td>
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<tr>
<td>History I</td>
<td>(see below)**</td>
<td>3</td>
</tr>
<tr>
<td>Ph 114</td>
<td>Intro. to Phys. Science</td>
<td>3</td>
</tr>
<tr>
<td>Th 111</td>
<td>Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
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</table>

### Second Semester  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Bl 114</td>
<td>Intro. to Life Science</td>
<td>3</td>
</tr>
<tr>
<td>Bl 115</td>
<td>Intro. to Life Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>History II</td>
<td>(see below)**</td>
<td>3</td>
</tr>
<tr>
<td>Mt 140</td>
<td>Gen. Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Po 100</td>
<td>American Government</td>
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### Freshman Year  
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<th>Sem. Hrs.</th>
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<tr>
<td>Ar 221</td>
<td>Elementary School Art</td>
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<tr>
<td>Ed 141</td>
<td>Human Growth &amp; Dev. I</td>
<td>3</td>
</tr>
<tr>
<td>En 226</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mt 141</td>
<td>Gen. Mathematics II</td>
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<tr>
<td>Mu 121</td>
<td>Fund. of School Music</td>
<td>2</td>
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<tr>
<td>Th</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area II</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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<td><strong>16</strong></td>
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### Sophomore Year  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Ed 214</td>
<td>Meth. of Teach. Reading</td>
<td>3</td>
</tr>
<tr>
<td>Ed 301</td>
<td>Elem. Meth. &amp; Mat.: Science@</td>
<td>2</td>
</tr>
<tr>
<td>Ed 302</td>
<td>Elem. Meth. &amp; Mat.: Soc. St.@</td>
<td>2</td>
</tr>
<tr>
<td>Ed 382</td>
<td>Elem. Health &amp; Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>Hs</td>
<td>American History I</td>
<td>3</td>
</tr>
<tr>
<td>Th</td>
<td>Elective</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

### Junior Year  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>Ed 312</td>
<td>Clinical Experiences@</td>
<td>1</td>
</tr>
<tr>
<td>Ed 216</td>
<td>Diag. Reading Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Ed 307</td>
<td>Elem. Meth. &amp; Mat.: Lang. Arts and Linguistics@</td>
<td>3</td>
</tr>
<tr>
<td>Hs</td>
<td>American History II</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area III</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
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### Senior Year  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 204</td>
<td>Student Teaching</td>
<td>6</td>
</tr>
<tr>
<td>Ed 304</td>
<td>Seminar Prof. Prob.</td>
<td>3</td>
</tr>
<tr>
<td>Ca 101</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>En</td>
<td>Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area IV</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Th</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Requires registration for Ed 101 concurrently.

Majors must elect one semester of a Western civilization course and one semester of a non-Western civilization course. A I and a II must be elected. Any combination fulfills the requirement. Consult counselor.

Requires field experiences of 1/2 day per week for entire semester.

Second semester (2 cr. hrs.) of Ar 221 may be elected or any approved Art course. Consult counselor.

Ed 300 is a prerequisite for Ed 301, 302, and 307.

Prerequisite for student teaching and requires two one-half day field experiences per week.

Student Teaching may be elected in either semester. Requirements as listed in Spring semester must be fulfilled as indicated in Fall semester. Consult counselor.

Students wishing certification in Kindergarten through 8th grade must also take Ed 305 and 306 (Kindergarten Methods and Materials I and II, 2 semester hours each).
# B.S. Elementary Education (Grades 1-8) Special Education Certification

## Concentrations: LDBD, MSPR, and EMR

## Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ed 101 — Field Experiences: Elem.*</td>
<td>0</td>
<td>Bl 114 — Intro. to Life Science</td>
</tr>
<tr>
<td>Ed 300 — Intro. to Elem. Ed.+</td>
<td>3</td>
<td>Bl 115 — Intro. to Life Science Lab</td>
</tr>
<tr>
<td>En 101 — English Composition</td>
<td>3</td>
<td>Ed 271 — Intro. to Emotionally Disturbed Child**</td>
</tr>
<tr>
<td>History I — (see below)+++</td>
<td>3</td>
<td>History II — (see below)++</td>
</tr>
<tr>
<td>Ph 114 — Intro. to Phys. Science</td>
<td>3</td>
<td>Mt 140 — Gen. Mathematics I</td>
</tr>
<tr>
<td>Ph 115 — Intro. to Phys. Science Lab</td>
<td>2</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Th 111 — Intro. to Theology</td>
<td>3</td>
<td>Po 110 — American Government</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

| **Sophomore Year** |                |                 |
| Ar 221 — Elementary School Art | 2 | Ar — Elective** | 2-3 |
| Ed 141 — Human Growth & Dev. I | 3 | Ed 142 — Human Growth & Dev. II | 3 |
| Mt 141 — Gen. Mathematics II | 3 | Ed 439 — Learning & Behav. Disorders | 2 |
| Mu 121 — Fund. of School Music | 2 | Mu 122 — Music in the Elem. School | 2 |
| Th — Elective | 3 | Philosophy Area II | 3 |
| **Total** | 18 | **Total** | 17-18 |

| **Junior Year** |                |                 |
| Ed 214 — Meth. of Teach. Reading | 3 | Ed 212 — Clinical Experiences@@ | 1 |
| Ed 301 — Elem. Meth. & Mat.: Science@ | 2 | Ed 216 — Diag. Reading Instruction | 3 |
| Ed 302 — Elem. Meth. & Mat.: Social Studies@ | 2 | Ed 307 — Elem. Meth. & Mat.: Lang. Arts and Linguistics@ | 3 |
| Ed 382 — Elem. Health & Hygiene | 2 | En — Elective | 3 |
| Hs — American History I | 3 | Hs — American History II | 3 |
| Th — Elective | 3 | Philosophy Area III | 3 |
| **Total** | 15-17 | **Total** | 16-18 |

| **Senior Year** |                |                 |
| Ca 101 — Oral Communication | 3 | Ed 204 — Student Teaching | 6 |
| Ed 436 — Occ. Orient. & Job Tr.: EMR+++ | 2 | Ed 304 — Seminar Prof. Prob. | 3 |
| Ed 440 — Ind. Assess. and Pres. Teach. | 2 | En 200 — Adv. Comp. for Teachers | 3 |
| Ed 441 — Meth. & Mat.: Exc. Child | 2 | Philosophy Area IV | 3 |
| Ed 446 — Education of MSPR@@ | 2 | Th — Elective | 3 |
| **Total** | 13-17 | **Total** | 12 |

74
+ Requires registration for Ed 101 concurrently.
++ Majors must elect one semester of a Western civilization course and one semester of a non-Western civilization course. A I and II must be elected. Any combination fulfills the requirement. Consult counselor.
+++ For EMR certification only.
* Requires field experiences of 1/2 day per week for entire semester.
** Second semester (2 cr. hrs.) of Ar 221 may be elected or any approved Art course. Consult counselor.
*** For LDBD certification only.
@@ Ed 300 is a prerequisite for Ed 301, 302, and 307.
@@ Prerequisite for student teaching and requires two one-half day field experiences per week.
@@@@ For MSPR certification only.
* Student Teaching may be elected in either semester. Requirements as listed in Spring semester must be fulfilled as indicated in Fall semester. Consult counselor.
** For EMR and MSPR certification only.

Students wishing certification in Kindergarten through 8th grade must also take Ed 305 and 306 (Kindergarten Methods and Materials I and II, 2 semester hours each).

Sally Pruden, Associate Professor of Education and Director of Special Education Programs at Xavier, directs the Classroom Management workshop. Elected to serve as President of the Cincinnati Psychological Association in 1979-80, Dr. Pruden currently sits on the Advisory Board of the Greater Cincinnati Association for Learning Disabilities.
## B.S. (Physical Education and Health)

### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI 107—Human Anat. &amp; Phys. I Lab</td>
<td>1</td>
<td>BI 109—Human Anat. &amp; Phys. II Lab</td>
<td>1</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Mt—Elective (Mt 140 or above)</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition@</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>History I (100-level Elective)++</td>
<td>3</td>
<td>History II (100-level Elective)++</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

| **Sophomore Year** | | | |
| Ed 131—Intro. to Sec. Ed. | 3 | Ed 142—Human Growth & Dev. II | 3 |
| Ed 141—Human Growth & Dev. I | 3 | Ed 274—Mental Hygiene | 2 |
| Ed 371—Gym & Tumbling+ | 3 | Philosophy Area II | 3 |
| Ed 386—Kinesiology+ | 2 | Ed—Elect one Phys. Ed. Coaching Course from Area II Coaching++ | 2 |
| Ed 387—First Aid & Safety | 2 | Elective | 3 |
| Mt 146—Elementary Statistics | 3 | **Total** | 18 |
| **Total** | 18 | **Total** | 15 |

| **Junior Year** | | | |
| Ed—Phys. Ed. Elective | 3 | Humanities Elective (Lit.) | 3 |
| So/Th 310—Marriage and the Family | 3 | Electives | 2 |
| Humanities Electives | 3 | Ed 470—Basic Aquatics | 1 |
| Theology Elective | 3 | Ed 215—Dev. Read. Sec. Schools | 3 |
| **Total** | 16 | Ed 211—Clinical Experiences | 1 |
| **Total** | 15 | | |

| **Senior Year** | | | |
| Philosophy Area IV | 3 | Ed 403—Student Teaching and Seminar | 9 |
| Theology Elective | 3 | Ed 380—Phys. Ed. Meth. & Mat. | 4 |
| Humanities Elective (Lit.) | 3 | | |
| Humanities Elective | 3 | | |
| Ed 368—Instr. Prep.: CPR | 2 | **Total** | 14 |
| **Total** | 14 | **Total** | 13 |
This program meets State of Ohio certification requirements. (Grades 7-12.)
† Ed 377, 378 offered every other year alternating with Ed 371, 386, 387, 388.
@ Required, unless exempted through a test-out program. See page 38.
†† See Curricular Requirements, page 36.
** One or more of these courses is offered every year during the first and second semesters. By electing these cycled courses as they appear in the schedule, sophomores and juniors will meet state and University requirements, and their own needs. See counselor.

For Ohio certification covering Physical Education Grades 1-8, students must include the following 7 hours (as part of their 10 hours of physical education and free electives):

- Ed 385 Physical Education in the Elementary School ........................................ 2
- Ed 389 Adaptive Physical Education ............................................................... 3
- Ed 392 Sensory Integration and Movement Education ........................................ 2
# B.S. (Montessori Education)

## Recommended Sequence of Program

### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>En 101—English Composition</td>
<td>Bl 114—Intro. to Life Science</td>
</tr>
<tr>
<td>History I</td>
<td>Bl 115—Intro. to Life Science Lab</td>
</tr>
<tr>
<td>Ph 114—Intro. to Phys. Science</td>
<td>Mt 140—General Mathematics</td>
</tr>
<tr>
<td>Ph 115—Intro. to Phys. Science Lab</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>Po 110—American Government</td>
</tr>
<tr>
<td>Ed 300—Intro. to Elem. Ed.</td>
<td>History II</td>
</tr>
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<td>Ed 101—Field Experience: Elem.</td>
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**Total:** 16

### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 141—Human Growth &amp; Dev. I</td>
<td>Ed 142—Human Growth &amp; Dev. II</td>
</tr>
<tr>
<td>Mt</td>
<td>Ed 353—Montessori Mat. Overview*</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>Philosophy Area II</td>
</tr>
<tr>
<td>Ar 221—Art in the Elem. School</td>
<td>Ar—Elective*</td>
</tr>
<tr>
<td>Mu 121—Fund. of School Music</td>
<td>Mu 122—Music in the Elem. School</td>
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</table>

**Total:** 18

### Junior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 214—Meth. of Teaching Reading</td>
<td>American History II</td>
</tr>
<tr>
<td>Ed 301—Elem. Meth. &amp; Mat.: Science@ @</td>
<td>Ed 216—Diag. Reading Instruction</td>
</tr>
<tr>
<td>Ed 302—Elem. Meth. &amp; Mat.: Social Studies@ @</td>
<td>Philosophy Area III</td>
</tr>
<tr>
<td>American History I</td>
<td>Ed 355—Adv. Mont. Mat. II* or</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>Ed 455—Mont. Meth. &amp; Mat. II**</td>
</tr>
<tr>
<td>Ed 354—Adv. Mont. Mat. I* or</td>
<td>Ed 307—Meth. &amp; Mat.: LA &amp; Ling.@@</td>
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<tr>
<td>Ed 454—Mont. Meth. &amp; Mat. I**</td>
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<tr>
<td>Ed 439—Learning &amp; Behav. Dis.</td>
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</table>

**Total:** 18-21

### Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>En 226—Children's Literature</td>
<td>Ed 350—Meth. of Observ. Children</td>
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<td>Philosophy Area IV</td>
<td>Humanities Elective (Lit.)</td>
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<tr>
<td>CA 101—Oral Communication</td>
<td>Theology Elective</td>
</tr>
<tr>
<td>Ed 458—Mont. Pre-primary Intern.I**</td>
<td>Ed 459—Mont. Pre-primary Intern. II</td>
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</tbody>
</table>

**Total:** 15-18

**Recommended in Summer:** Ed 200—Advanced Writing for Teachers

**Total:** 15-18
+ Includes the September observations and additional observations during the semester. Must be taken concurrently with Ed 300.
* Any approved Art Elective may be taken, including 2nd semester of Ar 221. See counselor.
@ Students are required to take one semester of a Western civilization course and one semester of a non-Western course.
Courses needed for Montessori elementary certification.
@@ Ed 300 is a prerequisite for Ed 301, 302, and 303.
Courses needed for Montessori pre-primary certification.
NOTE: A fee of $120 is required by the American Montessori Society for the AMS certification at the beginning of the internship.
THE BACHELOR OF ARTS (English)

The major in English is designed to develop writing skills, a critical and historical understanding of the English language and its literature, and a knowledge of current theories of literature, language, and humanistic interpretation. The English major is an excellent preparation for law school and for careers in journalism, education, editing, publishing, and communications. It is also a good preparation for graduate work in business and, with appropriate science courses, for medical school.

English majors are required to take En 115, 116, and 221. Additional requirements are a course in Shakespeare, a course in British literature, a course in American literature, and one upper-level writing course (En 200, 201, 208, 209, 210, or 211). All senior English majors are required to complete a Senior Seminar (either En 398 or En 399).

Undergraduates who wish to be certified as teachers of English on the secondary level are advised to consult with the Chairman of the English Department and with the Office of Teacher Education and Placement (Room 14, Alter Hall) regarding specific requirements for teacher certification.
# A.B. (English)
## Recommended Sequence of Program

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Freshman Year</td>
<td></td>
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<tr>
<td>En 115—Rhetoric†</td>
<td>3</td>
<td>En 116—Narrative</td>
<td>3</td>
</tr>
<tr>
<td>History I (100-level Elective) ‡</td>
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<td>History II (100-level Elective) ‡</td>
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<tr>
<td>Foreign Language ‡</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

|                |           | Sophomore Year  |           |
| En 221—Poetry | 3         | En—Advanced Writing Elective | 3         |
| Elective      | 3         | Elective        | 3         |
| Mt—Elective ‡ | 3         | Mt—Elective     | 3         |
| Theology Elective | 3         | Philosophy Area II | 3         |
| Foreign Language | 3         | Foreign Language | 3         |
| **Total** | **15** | **Total** | **15** |

|                |           | Junior Year     |           |
| En—Shakespeare Elective | 3         | En—British Lit. Elective | 3         |
| En—American Lit. Elective | 3         | En—Elective     | 3         |
| Humanities Elective | 3         | Humanities Elective | 3         |
| Theology Elective | 3         | Philosophy Area III | 3         |
| Social Science Elective | 3         | Social Science Elective | 3         |
| **Total** | **15** | **Total** | **15** |

|                |           | Senior Year     |           |
| En 398 or 399—Senior Seminar | 3         | En—Electives   | 6         |
| En—Elective | 3         | Electives      | 9         |
| Philosophy Area IV | 3         | Theology Elective | 3         |
| Elective | 3         | **Total** | **15** |

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† This course satisfies the University English Composition requirement for English majors.

‡ See Curricular Requirements, pages 36-38.
THE BACHELOR OF ARTS (History)

The Bachelor of Arts conferred on history majors requires two semesters of history at the 100-level course number to include a first semester (I) and a second semester (II) course, not necessarily sequential, Hs 341, 342, 293, and five or seven additional courses. Those who plan careers in law or business or government employment should complete the 30 hour major. Those who will attend graduate school or become teachers should complete a 36 hour major. Thus they will use six hours of their electives. Seminars for seniors planning graduate study in history are offered in aspects of the history of the United States, Europe, Latin America, and Asia. For course distribution requirements, consult either department advisor or Chairman.

History is studied as a liberal art for its primary value of educating one toward proper appreciation of human living. Its memory of man and its insistence on accurate detail, on proof, and on the relation of cause and effect cultivate habits of mature judgment. It helps toward developing due respect and sympathy for others and supreme regard for the final purpose of life.

Moreover, the study of history ordinarily prepares the student for careers in teaching, government service and even general business fields. It is an excellent preparation for law school and the foreign service.

A senior comprehensive equivalent requirement exists. It may be satisfied by successfully completing Hs 293, which includes the requirement of a directed research paper.
# A.B. (History)
## Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
</tr>
<tr>
<td>History I (100-level Elective)&quot;</td>
<td>History II (100-level Elective)&quot;</td>
</tr>
<tr>
<td>Foreign Language&quot;</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>Science Elective</td>
<td>Science Elective</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>Th 111—Intro. to Theology</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>En 101—English Composition</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

| Sophomore Year | | |
|----------------|-----------------|
| Hs 341—Amer. Civ. To 1865 | Hs 342—Amer. Civ. Since 1865 | 3 | 3 |
| Humanities Elective (Lit.) | Mt—Elective | 3 | 3 |
| Mt—Elective" | Social Science Elective | 3 | 3 |
| Theology Elective | Philosophy Area II | 3 | 3 |
| Foreign Language | Foreign Language | 3 | 3 |
| **Total** | **Total** | 15 | 15 |

| Junior Year | | |
|-------------|-----------------|
| Hs—Electives | Hs—Electives | 6 | 6 |
| Humanities Elective | Humanities Elective | 3 | 3 |
| Theology Elective | Philosophy Area III | 3 | 3 |
| Social Science Elective | Social Science Elective | 3 | 3 |
| **Total** | **Total** | 15 | 15 |

| Senior Year | | |
|-------------|-----------------|
| Hs 293—Historical Research† | Hs—Elective | 3 | 3 |
| Social Science Elective | Philosophy Area IV | 3 | 3 |
| Theology Elective | Electives | 3 | 9 |
| Electives | | | 6 |
| **Total** | **Total** | 15 | 15 |

** See Curricular Requirements, pages 36-38.
† Required, unless exempted through a test-out program. See page 38.
† Hs 293 may be taken any time after the sophomore year.
THE BACHELOR OF ARTS
(International Affairs)

The program in International Affairs is designed to equip students with a fundamental orientation in the field of international relations, to provide basic methods of approach to the study, and to provide intelligent observation of international affairs. Employment opportunities are to be found in business and government. The students will have the necessary prerequisites to enroll in graduate programs in business, law, and foreign affairs.

The program requires the following six courses (18 credit hours):
- EC 344  Economics of International Relations
- HS/Po 249  International Organizations
- HS/Po 374  U.S. Foreign Policy
- HS/Po 377  International Relations
- Po 110  American Government
- Po 376  International Law

In addition to the above courses, the student selects a field of concentration from the following: Business, Europe, Asia or Latin America (18 credit hours).

Students electing business as a field of concentration are required to select a geographic area from the following: Europe, Asia or Latin America (9 credit hours).

Internship — For a portion of one semester during the senior year, the student will be assigned to a corporation dealing in world trade or a government agency involved in the international arena.

The student selects a modern language covering the geographic area of specialization (12 credit hours).

All students should consult the Program Director for specific details. The Director's office is located in 311 Hinkle Hall.
## A.B. (International Affairs)  
### Field of Concentration—Business  
### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language@</td>
<td>3</td>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>History I***</td>
<td>3</td>
<td>History II***</td>
<td>3</td>
</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>3</td>
<td>Ec 102—Microeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Freshman Year

| Modern Language               | 3         |
| Hs/Po 377—International Relations | 3         |
| Mt 149—Elementary Functions** | 3         |
| Theology Elective             | 3         |
| Humanities Elective           | 3         |
| **Total**                     | **15**    |

### Sophomore Year

| Hs/Po 374—U.S. Foreign Policy | 3         |
| Science Elective              | 3         |
| Theology Elective             | 3         |
| Ac 100—Prin. of Accounting I  | 3         |
| Geographic Concentration      | 3         |
| **Total**                     | **15**    |

### Junior Year

| Ec 344—Economics of Int. Relations | 3         |
| Humanities Elective               | 3         |
| Hs/Po 249—Inter. Organizations   | 3         |
| Theology Elective                 | 3         |
| Fi 255—Business Finance           | 3         |
| **Total**                         | **15**    |

### Senior Year

| Ec 344—Economics of Int. Relations | 3         |
| Humanities Elective               | 3         |
| Hs/Po 249—Inter. Organizations   | 3         |
| Theology Elective                 | 3         |
| Fi 255—Business Finance           | 3         |
| **Total**                         | **15**    |

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 36.
** See Mathematics requirements, page 37.
*** 100-level History I & II—geographical area of specialization.
Preregistration in Alter Hall requires the assistance of a number of specially trained students to facilitate the ease of the operation.
# A.B. (International Affairs)

**Fields of Concentration—Europe, Asia, Latin America**

**Recommended Sequence of Program**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>En 101—English Composition</td>
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<tr>
<td>Modern Language@</td>
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<td>History II***</td>
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<td>Ec 101—Macroeconomic Principles</td>
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<td>Ec 102—Microeconomic Principles</td>
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<td>Th 111—Intro. to Theology</td>
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<tr>
<td>Modern Language</td>
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<td>Hs/Po 377—International Relations</td>
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<td>Po 110—American Government</td>
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<td>Mt 149—Elementary Functions**</td>
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<td>Mt 150—Elements of Calculus I</td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>Hs/Po 374—U.S. Foreign Policy</td>
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<td><strong>Senior Year</strong></td>
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<td>Ec 344—Economics of Int. Relations</td>
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<td>Po 376—International Law</td>
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<td>Hs/Po 249—Inter. Organizations</td>
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<td><strong>Total</strong></td>
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</table>

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 38.
** See Mathematics requirements, page 37.
*** 100-level History I & II—geographical area of specialization.
THE BACHELOR OF SCIENCE (Mathematics)

The Department of Mathematics offers a program intended to develop a student's ability to think analytically, to provide mathematical background for work in science and business, and to prepare students for teaching and graduate work.

Students approach the study of mathematics with different goals in mind. Mathematics has always been the tool of the physical scientist. The expansion of the use of computers will require the services of many individuals trained in the mathematical sciences. The applications of statistics are increasingly widespread. Those in the social and health sciences, in the business community, and in the field of law are becoming more aware of the value of mathematics, not only as a tool for problem-solving but also for developing critical and analytical skills. New mathematicians will continue to be in demand to fill both traditional and developing roles in society.

A major in mathematics at Xavier will take courses in science, the humanities, social science, modern language, philosophy, and theology in addition to mathematics. The program also includes free electives to be taken in areas of study of particular interest to the individual student. The required courses in mathematics form a sound base for applications of mathematics. There are numerous elective courses offered in the major field. The student chooses from these as a first step in the direction of specialization or as a preparation for graduate study.

Any student wishing to major in mathematics should consult a member of the mathematics staff before registration. Mathematics majors are encouraged to fulfill the modern language requirement in French or German. The senior comprehensive examination requirement is fulfilled by passing the Graduate Record Examination in Mathematics.
# B.S. (Mathematics)

## Recommended Sequence of Program

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<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>History I (100-level Elective)**</td>
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<td>History II (100-level Elective)**</td>
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<td>ML 111**</td>
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<td>ML 112**</td>
<td>3</td>
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<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Mt 138—Numerical Computations</td>
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<td>En 101—English Composition*</td>
<td>3</td>
<td>Mt 171—Calculus II</td>
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<td>Mt 170—Calculus I</td>
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<td>Mt 172—Calculus III</td>
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<td>ML 122</td>
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<td>ML 121</td>
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<td>Humanities Elective**</td>
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<td>Mt 220—Advanced Calculus I</td>
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<td>Mt 215—Differential Equations</td>
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<td>Mt 240—Linear Algebra</td>
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<td>Mt 230—Advanced Calculus II</td>
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<td>Humanities Elective**</td>
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<td>Humanities Elective**</td>
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<td>Social Science Elective**</td>
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<td>Social Science Elective**</td>
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<tr>
<td>Theology Elective</td>
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<td>Philosophy Area II</td>
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<td>Mt—Elective</td>
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<td>Mt 250, 260 or 270</td>
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<table>
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<tbody>
<tr>
<td>Elective</td>
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<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy Area III</td>
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<td>Philosophy Area IV</td>
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<td>Theology Elective</td>
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<td>Humanities Elective**</td>
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<td>Mt—Electives</td>
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<td>Mt—Elective</td>
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<tr>
<td>Total</td>
<td>15</td>
<td>Total</td>
<td>15</td>
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</tbody>
</table>

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, pages 36-38.
THE BACHELOR OF SCIENCE
(Medical Technology)

The curriculum which leads to the B.S. (Medical Technology) degree consists of three years of undergraduate study at Xavier University and a fourth year (twelve months) at a school of medical technology in a hospital accredited by the American Society of Clinical Pathologists and approved by Xavier University. Xavier University is affiliated with several hospital programs in Southwestern Ohio. During the fourth year, the student registers at Xavier University.

A student may also elect to complete four years at Xavier University, earning a bachelor's degree in Biology or Natural Sciences, and then apply for a clinical program at any hospital approved by the National Accrediting Agency, Clinical Laboratory Sciences (NAACLES).

All requirements of the College of Arts and Sciences' core curriculum are fulfilled in the first six semesters; the year spent at the hospital teaching laboratories consists of specialized studies. These courses will be part of a program approved by ASCP for medical technologists. They include clinical microscopy, serology, immuno-hematology, clinical microbiology, and similar studies. The B.S. is awarded by Xavier University upon satisfactory completion of the fourth year.

After passing an examination administered by the Board of Registry of Medical Technologists of the ASCP, the graduate becomes a Registered Medical Technologist.

Specific course requirements for the first three years are indicated in the accompanying block schedule on the next page. The degree program requires 18 semester hours in biology and 18 semester hours in chemistry.
**B.S. (Medical Technology)**

**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bl 111—Gen. Biology Lab</td>
<td>2</td>
<td>Bl 113—Gen Zoology Lab</td>
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<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>1</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td>14</td>
<td><strong>Total</strong></td>
<td>15</td>
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</table>

| **Sophomore Year** | | | |
| Organic Chemistry | 3 | Physiological or Organic Chemistry | 3 |
| Chemistry Lab | 1 | Chemistry Lab | 1 |
| Philosophy Area I | 3 | Ph 106—College Physics II | 3 |
| History I (100-level Elective)* | 3 | Ph 107—Intro. Physics Lab II | 1 |
| Ph 104—College Physics I | 1 | History II (100-level Elective)* | 3 |
| Ph 105—Intro. Physics Lab I | 1 | Theology Elective | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| **Total** | 14 | **Total** | 17 |

| **Junior Year** | | | |
| Bl 360—Vert. Physiology | 2 | Bl 210-211—Microbiology or | |
| Bl 361—Vert. Physiology Lab | 2 | Bl 212-213—Bacteriology | 4 |
| Ch 151—Analytical Chemistry | 1 | Bl 222—Immunology | 2 |
| Philosophy Area III | 3 | Philosophy Area IV | 3 |
| Humanities Elective (Lit.) | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| **Total** | 17 | **Total** | 18 |

| **Senior Year** | | | |
| During the junior year the student must apply to and be accepted for admission to an accredited hospital program of medical technology. The B.S. (Medical Technology) degree will be awarded upon satisfactory completion of the fourth year (12 months) of study at an accredited (ASCP) School of Medical Technology administered by a hospital and approved by Xavier University. During this year the student registers at Xavier University for the first summer session, the fall semester, and spring semester. ($25 fee payable each registration.) |
| * Required, unless exempted through a test-out program. See page 38. |
| * See Curricular Requirements, page 36. |

If a student is unable to enter a program of Medical Technology at a hospital, arrangements should be made with the chairman of the appropriate department to determine the senior year courses necessary for completion of requirements leading to a degree in Biology, Natural Sciences, or Chemical Science.
THE BACHELOR OF SCIENCE
(Nuclear Medical Technology)*

Nuclear Medicine is one of the most rapidly growing fields in medical diagnosis. As a result of this growth, it is projected that the demand for trained Nuclear Medical Technologists will continue to increase. At the present time educational programs in this field fail to satisfy the yearly demand for new personnel. For the foreseeable future it thus appears that abundant opportunity exists for trained technologists who handle the complex instrumentation with which procedures are carried out.

Xavier University, in cooperation with Miami Valley Hospital and Grandview Hospital, both in Dayton, Ohio, offers a four-year program leading to the Bachelor of Science degree. The Bachelor of Science program consists of three years of full-time classroom work of 90-92 semester hours taken at Xavier University and the 12 month clinical internship.*

In the 12 month clinical year (beginning in July) the student is in daily attendance on a 40-hour week basis to pursue a program of lecture courses and clinical training. All courses in the clinical year are carried out entirely in the hospital environment to make maximum use of student's time. They emphasize the relevancy of lecture presentation in day-to-day work and more completely integrate the entire program for the student. The entire program has been structured to exceed all requirements set forth by the American Society of Radiologic Technologists. Students completing the program are thus eligible to take the examination to become Board Certified Nuclear Medical Technologists.

* This program is offered only through the College of Continuing Education.
@ A two-year Associate degree program is also available.
* Classroom work may be completed on a part-time basis over an extended time period, but science courses must be taken during the day.
# B.S. (Nuclear Medical Technology)
## Recommended Sequence of Program

### Freshman Year

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<thead>
<tr>
<th>Courses</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Bl 110—Gen. Biology (2)</td>
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<tr>
<td>Bl 111—Gen. Biology Lab (2) or</td>
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<tr>
<td>Bl 106—Anat. &amp; Phys. I (2) and</td>
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<td>Bl 107—Anat. &amp; Phys. I Lab (1)</td>
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<tr>
<td>Ch 110—Gen. Chemistry I</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>En 101—English Composition</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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### Sophomore Year

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<tbody>
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<td>Ch 241—Organic Chem. I Lab</td>
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<tr>
<td>Ph 104—College Physics I</td>
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<tr>
<td>Ph 105—Intro. Physics Lab I</td>
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<tr>
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### Junior Year

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<tr>
<td>Bi 361—Vertebrate Phys. Lab</td>
<td>2</td>
</tr>
<tr>
<td>Ch 151—Analytical Chemistry</td>
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</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
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</tr>
<tr>
<td>Social Science Elective</td>
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<tr>
<td>Humanities Elective</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
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</tbody>
</table>

### Senior Year

The fourth year will be spent in internship either at Miami Valley Hospital or Grandview Hospital Institute of Nuclear Technology, both in Dayton, Ohio. This is a 12-month internship.

The Clinical Year Program courses include: Medical Nuclear Physics, Nuclear Medical Instrumentation and Radionuclide Measurements, Radiation Protection and Radiobiology, Radiopharmaceuticals and Tracer Methods, Technical Evaluation of Nuclear Medical Procedures, and Clinical Practicum.

Thirty semester hours of credit will be given for the clinical year.

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, page 36.
The Bachelor of Arts 
(Modern Languages)

The Department of Modern Languages offers courses of interest to students seeking a variety of goals:

1. **Fulfillment of the modern language requirement.** The Department offers first and second year courses in French, German, and Spanish. Students who begin a Modern Language at Xavier, or who have had only one year of that language in high school, must take 12 semester hours beginning with the 111 (Elementary I) course. Those who have two high school units in a modern language and continue the same modern language at the University are required to take 9 semester hours and must enroll in the 112 (Elementary II) course. By taking the MODERN LANGUAGE PROFICIENCY TEST, students may test out of any of the following courses: 111, 112, 121, 122.

2. **Practical and vocational preparation.** Advanced courses in foreign language, literature, and civilization are available to those interested in areas of secondary education, government, business, and international agencies in which a strong foreign language background is a requirement or a valuable asset. A language major is not necessary to meet this goal.

3. **To obtain an undergraduate major in French or Spanish.**

4. **A Master’s Degree in Education.** Concentrations are available to M.Ed. candidates in French and Spanish.

5. **Electives.** Most upper division courses in modern languages fulfill elective obligations in the humanities. All such courses may also be used as free electives.

6. **To obtain an undergraduate major in French or Spanish with a Business Option.**

The programs for majors in Spanish and French aim at providing the student the opportunity to acquire an in-depth knowledge of the literature and civilization of linguistic areas and an adequate degree of proficiency in the spoken and written language.

Requirements for modern language majors:

- All majors in French and Spanish must complete 27 hours of upper division courses. French majors must include: Fr 200, 234 or 235, 240, and 241. Spanish majors must include at least one of the following: Sp 200, 201, 203, or 204.

- During the final semester before graduation, all majors are required to take a senior comprehensive examination in the language of their major.
## A.B. (Modern Languages) Recommended Sequence of Program

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<tr>
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<td><strong>Freshman Year</strong></td>
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<td>History II (100-level Elective)†</td>
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<td>ML 111†</td>
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<td>ML 112</td>
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<tr>
<td>Science Elective</td>
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<td>Science Elective</td>
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<tr>
<td>En 101—English Composition†</td>
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<td>Philosophy Area I</td>
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<td>Mt—Elective†</td>
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<td>Social Science Elective</td>
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<td>Elective</td>
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<td>Philosophy Area II</td>
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<td>ML—Sp Electives; Fr Elective and Fr 241</td>
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</tbody>
</table>

† See Curricular Requirements, pages 36-38.
* Required, unless exempted through a test-out program. See page 38.

## A.B. (Modern Languages with a Business Option)

Students follow the above schedule. However, they must also take Principles of Accounting, Principles of Marketing, Macroeconomic Principles, Microeconomic Principles, and Business Finance as free electives, See page 112.
BACHELOR OF ARTS (Philosophy)

Philosophy was originally the name for the highest kind of knowledge—science and wisdom—encompassing all the disciplines except history and the arts. Today the disciplines have become methodologically independent, and philosophy has become one discipline among many. But it continues to be a search for ultimate realities and norms and continues in many ways to integrate our knowledge of the areas of reality. Philosophy has always had a special place in the Christian, especially the Catholic and the Jesuit, traditions of education.

The major in philosophy is the appropriate course of study for a person intending to pursue graduate study in philosophy. It is also an excellent preparation for entry into professional schools, especially law school and divinity school or major seminary, and for graduate study in the humanities or social sciences. Majors in philosophy have also been successful in a wide variety of other careers, especially those that provided on-the-job training.

The program of studies for students who choose philosophy as their major subject consists of 12 courses (36 credits): philosophical psychology, metaphysics, ethics, symbolic logic, British-American philosophy, any 3 history of philosophy courses (chosen from ancient, medieval, modern, and contemporary continental philosophy), and 4 electives, chosen by the student in conjunction with the advisor. Whenever possible, majors should enroll in high-intensity courses in philosophy.

Students who wish to concentrate in an area of philosophy closely related to some other discipline may omit symbolic logic and British-American philosophy and may choose a maximum of 4 philosophically relevant courses from other disciplines as part of their major program. (An example is history of political theory.) These courses must fit together with each other and with the student's philosophical electives to form a meaningful whole and must be approved by the department. This alternative, if adopted and planned early enough, will also make it possible for many students to pursue a double major. The double major in philosophy will strengthen the student's intellectual development and indirectly his/her career opportunities.

Every philosophy major must prepare a senior thesis in philosophy and must successfully pass a written and oral examination on the subjects which the student has studied. The topic for the senior thesis should be chosen in the junior year after the student has been introduced to bibliographic research and scholarly writing, and completed by March of the senior year. PI 398 is an optional course in bibliographic research. PI 399 is an optional seminar in research for students preparing their theses.
# A.B. (Philosophy)
## Recommended Sequence of Program

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<th>First Semester</th>
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<td>Science Elective</td>
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<td>Theology Intro.</td>
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<td>En 101—English Composition’</td>
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| **Sophomore Year**   |                |       |                 |       |
| Mt—Elective**        | 3               | Mt—Elective** | 3           |
| Foreign Language     | 3               | Foreign Language | 3           |
| PI 301—History of Ancient Phil. or| 3           | PI 303—History of Modern Phil. or| 3         |
| PI 302—History of Medieval Phil. or| 3           | PI 306—Contemp. Continental Phil. or| 3         |
| Theology Elective    | 3               | Humanities Elective (Lit.) | 3       |
| Humanities Elective (Lit.) | 3           | Elective | 3           |
| **Total**            | 15              | **Total** | 15           |

| **Junior Year**      |                |       |                 |       |
| PI 311—Symbolic Logic | 3               | Philosophy Area III | 3         |
| Philosophy Area II   | 3               | PI 303—History of Modern Phil. or| 3         |
| PI 301—History of Ancient Phil. or| 3           | PI 306—Contemp. Continental Phil. or| 3         |
| PI 302—History of Medieval Phil. or| 3           | Philosophy Elective | 3           |
| Philosophy Elective  | 3               | Social Science Elective | 3           |
| Theology Elective    | 3               | Electives | 6           |
| Social Science Elective | 3           |       |               |
| **Total**            | 15              | **Total** | 15           |

| **Senior Year**      |                |       |                 |       |
| PI 307—Contemp. Brit. and Amer. Phil. | 3               | Philosophy Electives | 6         |
| Philosophy Elective  | 3               | Electives | 9           |
| Theology Elective    | 3               |       |               |
| Humanities Elective  | 3               |       |               |
| Elective             | 3               |       |               |
| **Total**            | 15              | **Total** | 15           |

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, pages 36-38.
THE BACHELOR OF SCIENCE (Physics)

Behind the complex and varied appearance of Nature we find a beautifully ordered design. From the tiniest bits of matter to the enormity of the Universe there exists a structure that is based on a surprisingly small number of far-reaching fundamental principles. It is the goal of Physics to discover these fundamental principles, often called the "Laws of Nature," and to describe all natural phenomena in terms of these principles. Because of this very fundamental nature of Physics, its subject matter is exceptionally broad and underlies and pervades all of the other natural sciences and fields of engineering. For example, the molecules of life within every living thing are held together by the same physical forces as the molecules of non-living material and must therefore be understood in terms of the same physical laws.

The study of Physics should be of particular interest to those who are awed by the mysteries of nature and who wish to share in the unraveling of these mysteries.

The curriculum in physics is designed to impart a broad and sound scientific education which includes training in the scientific method, acquaintance with the historical development of physical science, and a knowledge of the applications of physical laws which play so large a part in modern life. In all physics courses, emphasis is laid on the intelligent comprehension of basic principles and on the search for fundamental truths that give order and meaning to our universe.

Small classes, seminars, individual discussion, and student-faculty research are an integral part of the study program. The physics faculty believes that the best teaching can be done only when there is a direct individual relationship between a student and a good teacher—a situation in which there is close faculty-student interaction for discussing, thinking and exploring.

The program in physics is designed to familiarize students with the techniques of mathematical and experimental physics that would be useful to them in an industrial research or engineering position; in physics teaching; as a general preparation for more advanced graduate work in any of the varied fields of physics; or in such disciplines as astronomy, space science, biophysics, computer science, engineering, geophysics, medicine, law, and oceanography.

The requirements for a Bachelor of Science (Physics) include 46 credit hours of physics, 16 of mathematics, and 8 of chemistry. Specific courses are shown on the four-year schedule which appears on the next page. These requirements, however, are modifiable for the needs and interests of each individual student.
### B.S. (Physics)
#### Recommended Sequence of Program

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<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Ph 108—Univ. Physics I</td>
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<td>Ph 110—Univ. Physics II</td>
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<td>Ph 105—Intro. Physics Lab I</td>
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<td>Ph 107—Intro. Physics Lab II</td>
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<td>CS—Computer Science</td>
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<td>Mt 171—Calculus II</td>
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<td>Mt 170—Calculus I</td>
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<td>En 101—English Composition*</td>
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<td>Philosophy Area I</td>
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<td>Th 111—Intro to Theology</td>
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<td>Foreign Language*</td>
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| **Sophomore Year** | | | |
| Mt 172—Calculus III | 3 | Ph 244—Electronics II’ | 2 |
| Ph 242—Electronics I’ | 2 | Ph 245—Electronics II Lab’ | 1 |
| Ph 243—Electronics I Lab’ | 1 | Mt 215—Differential Equations | 2 |
| Philosophy Area II | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Foreign Language | 3 |
| Foreign Language | 3 | Humanities Elective | 3 |
| **Total** | 18 | **Total** | 17 |

| **Junior Year** | | | |
| Ph 366—Atomic Physics’ | 3 | Ph 374—Nuclear Physics’ | 3 |
| Ph 375—Atomic Physics Lab’ | 1 | Ph 381—Nuclear Physics Lab’ | 1 |
| Ph 352—Electromagnetism’ | 3 | Ph 364—Optics’ | 3 |
| Ch 110—Gen. Chemistry I | 3 | Ch 112—Gen. Chemistry II | 3 |
| Ch 111—Gen. Chemistry I Lab | 1 | Ch 113—Gen. Chemistry II Lab | 1 |
| Mt 220—Advanced Calculus I | 3 | Mt 230—Advanced Calculus II** | 2 |
| Philosophy Area III | 3 | Theology Elective | 3 |
| **Total** | 17 | **Total** | 16 |

| **Senior Year** | | | |
| Ph 372—Electromagnetic Theory | 2 | PH 376—Quantum Mechanics | 3 |
| Ph 365—Optics Lab | 1 | Ph 398—Senior Research | 2 |
| Ph 392—Senior Review | 2 | Social Science Elective | 3 |
| Philosophy Area IV | 3 | Theology Elective | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective (Lit.) | 3 |
| History I (100-level Elective)* | 3 | History II (100-level Elective)* | 3 |
| Social Science Elective | 3 | | |
| **Total** | 17 | **Total** | 17 |

* See Curricular Requirements, page 36-38.
** Required, unless exempted through a test-out program. See page 38.
*’ These courses are offered in alternate years.
**’ Not required. Recommended for those who plan to attend graduate school.
THE BACHELOR OF ARTS
(Political Science)

The Department of Political Science and Sociology offers the Bachelor of Arts in political science. This program requires Po 101 Principles of Government, Po 110 American Government, Po 221 Comparative Government, Po 233 Political Theory, Po 377 International Relations and either Po 390 Seminar in International Relations or Po 391 Problems in American Government. Students then elect an additional four to six courses in the major for a total of 30 to 36 credit hours. In addition to formal course work, students are encouraged to include experiential learning in their personal program if they feel it will contribute to their learning goals and objectives. To facilitate this the Department sponsors intern programs in Cincinnati and Washington, D.C., as well as foreign study programs in Europe. This program provides breadth which insures that the student is well grounded in the discipline and at the same time permits flexibility for concentration in a sub-field.

Political science plays an important part in the student's liberal arts education as well as preparing the student for employment and/or graduate study. Political science is excellent preparation for students preparing for careers in law, public service, foreign service, teaching, and business.
# A.B. (Political Science) 
## Recommended Sequence of Program

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<td>Po 110—American Gov't.</td>
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<td>Po 377—International Relations</td>
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<td>Po 233—Political Theory</td>
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<td>Po 221—Comparative Gov't.</td>
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<tr>
<td>Po 391—Problems in Am. Gov't. or Po—Elective</td>
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<td>Po 390—Seminar in Int'l Relations</td>
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</table>

* See Curricular Requirements, pages 36-38.  
** Required, unless exempted through a test-out program. See page 38.  
* Principles of Economics recommended.  
It is suggested that students use En 201 Expository and Research Writing for one of their free electives.
THE BACHELOR OF SCIENCE (Psychology)

The Department of Psychology endeavors to acquaint students thoroughly with the content and methods of scientific psychology. While emphasizing the scientific approach to the understanding of human behavior and human personality, the psychology courses aim to show the student that this branch of science is complementary to and compatible with a sound philosophy of human nature. In addition to the program leading to the Bachelor of Science in psychology, the Department provides service courses to majors of other departments. The Bachelor of Science program in psychology aims to provide a general background for advanced studies in fields which presuppose understanding of human psychology such as clinical psychology, vocational and educational guidance, medicine, education, social work, and personnel work in business and industry.

Departmental requirements for a major are:

1. Completion of Ps 101 and 102 as an introduction to upper division work.

2. Twenty-eight credit hours in upper division courses including Ps 201, 210, 221, 222, and 299.

3. Satisfactory completion of BI 110, 111, 112, 113 to fulfill the science requirement, unless substitution of other science courses is approved by the Chairman of the Department of Psychology.
# B.S. (Psychology)

## Recommended Sequence of Program

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<td><strong>Freshman Year</strong></td>
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<tr>
<td>BI 111—Gen. Biology Lab</td>
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<td>BI 113—Gen. Zoology Lab</td>
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<td>En 101—English Composition*</td>
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<td>Mt—Elective†</td>
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<td>Modern Language</td>
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<td>Philosophy Area I</td>
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<td>Ps 101—General Psychology</td>
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<td>Ps 102—Adv. Gen. Psychology</td>
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| **Sophomore Year** | | | |
| History I (100-level Elective)* | 3 | History II (100-level Elective)* | 3 |
| Ps 210—Statistical Techniques | 3 | Humanities Elective (Lit.) | 3 |
| Modern Language | 3 | Modern Language | 3 |
| Th 111—Intro. to Theology | 3 | Philosophy Area II | 3 |
| Humanities Elective (Lit.) | 3 | Ps 221—Exp. Psychology I | 3 |
| **Total** | 15 | **Total** | 15 |

| **Junior Year** | | | |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Ps 222—Exp. Psychology II | 3 | Philosophy Area III | 3 |
| Ps—Elective | 3 | Ps 201—Hist. and Systems | 3 |
| Theology Elective | 3 | Ps—Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** | | | |
| Electives | 6 | Philosophy Area IV | 3 |
| Ps—Elective | 3 | Ps—Electives | 5 |
| Ps 299—Senior Comp. Review | 2 | Elective | 3 |
| Theology Elective | 3 | Theology Elective | 3 |
| **Total** | 14 | **Total** | 14 |

* Required, unless exempted through a test-out program. See page 38.
† Majors must choose the mathematics sequence 149, 150, or 150, 151, or 170, 171.
* See Curricular Requirements, pages 36-38.
THE BACHELOR OF ARTS (Sociology)

Sociology, the study of man's behavior in the group context, is a science of excitement, growth, and change. It seeks to discover regularities and order in social behavior and to express these patterns as theoretical generalizations applying to the wide range of such behavior. General and specialized areas of study are covered, as indicated in the listing of courses offered by the department, and requirements are kept to a minimum in order to allow students flexibility in the design of their programs.

Along with the significant contribution sociology and anthropology make to a liberal arts education, the program of the department is designed to prepare the sociology major for the following fields of endeavor: (1) graduate study for teaching sociology and anthropology at all levels; (2) service and graduate study in the social work profession; (3) careers in the fields of pure and applied research; (4) administrative and consultant positions in business, industry, government, and community work.

Students majoring in sociology must complete the following courses: So 101 Introduction to Sociology; So 180 Cultural Anthropology; So 300 Sociological Theories; So 352 Principles of Research; So 353 Intermediate Social Research; and a second theory-based course such as So 226 Utopian Communities or So 265 Class and Class Conflict.

Specific approved second-level theory courses to be offered will be announced by the department. Four additional upper division sociology courses complete the major of 30 hours. A senior project is required. As part of the University mathematics requirements, sociology majors take Mt 146 Elementary Statistics. The department encourages experiential learning by maintaining an intern program in social services for interested students.
# A.B. (Sociology)
## Recommended Sequence of Program

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<td><strong>Freshman Year</strong></td>
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<td>History I (100-level Elective)**</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
<td>Philosophy Area I</td>
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<td>So 180—Cultural Anthropology</td>
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<td>Mt—Elective**</td>
<td>Humanities Elective (Lit.)</td>
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<td><strong>Junior Year</strong></td>
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<td>Social Science Elective</td>
<td>Social Science Elective</td>
<td>3</td>
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</tr>
<tr>
<td>So 300—Sociological Theories</td>
<td>Philosophy Area III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>So 352—Principles of Research</td>
<td>So—Elective</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Theology Elective</td>
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<tr>
<td>Humanities Elective</td>
<td>So 353—Intermed. Social Research</td>
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<tr>
<td><strong>Total</strong></td>
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<td>15</td>
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<tr>
<td><strong>Senior Year</strong></td>
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<td>Electives</td>
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<td>So—Electives</td>
<td>So—Electives</td>
<td>6</td>
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<tr>
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</tr>
</tbody>
</table>

* See Curricular Requirements, pages 36-38.
* Required, unless exempted through a test-out program. See page 38.
It is suggested that students use En 201 Expository and Research Writing for one of their free electives.
THE BACHELOR OF ARTS (Theology)

The study of theology integrates knowledge of religious traditions with the questions men and women today have about themselves and the world in which they live.

The theology faculty attempts to assist the student in this integration with courses studying religious traditions, especially the Judaeo-Christian, and with interdisciplinary courses to understand the issues of our times as a source of theology.

The major in theology is a preparation for graduate studies in theology, a preparation for religious education, and a major in the liberal arts.

Students majoring in theology take 12 courses (36 credit hours) in theology. The senior seminar includes writing a thesis and discussing it formally with a board of faculty. Courses are to be distributed as follows:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>Introduction to Theology</td>
<td>1</td>
</tr>
<tr>
<td>5 courses arranged for theology majors</td>
<td>5</td>
</tr>
<tr>
<td>2 electives in specified areas of theology</td>
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<td>3 theology electives</td>
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<table>
<thead>
<tr>
<th>courses</th>
<th>Sem. Hrs.</th>
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# A.B. (Theology)
## Recommended Sequence of Program

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<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Foreign Language**</td>
<td>3</td>
<td>Foreign Language</td>
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<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
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<tr>
<td>Science Elective</td>
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<td>Science Elective</td>
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</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
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<td>Mt—Elective</td>
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<tr>
<td>Mt—Elective**</td>
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<td>Social Science Elective</td>
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<td>Social Science Elective</td>
<td>3</td>
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<tr>
<td>Theology (Scripture)*</td>
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<td>Theology (Systematics I)*</td>
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</tr>
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<td>Philosophy Area III</td>
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<td>Philosophy Area IV</td>
<td>3</td>
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<tr>
<td>Th 200—Evolu. of Christ, Theology*</td>
<td>3</td>
<td>Theology (Systematics II)*</td>
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<tr>
<td>Theology (World Religions)</td>
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<td>Theology (Scripture Elective)</td>
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<table>
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<tr>
<th>Senior Year</th>
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</thead>
<tbody>
<tr>
<td>Theology (Christian Ethics)*</td>
<td>3</td>
<td>Theology (Senior Seminar)*</td>
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<tr>
<td>Th—Electives</td>
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<td>Electives%</td>
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<td><strong>Total</strong></td>
<td>15</td>
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<td>15</td>
</tr>
</tbody>
</table>

* Special section for theology majors.
** See Curricular Requirements, pages 36-38.
* Required, unless exempted through a test-out program. See page 38.
* Theology majors have 21 hours of free electives; it is recommended that these be chosen in one area as a second concentration, rather than a wide dispersal of courses.
THE BACHELOR OF SCIENCE
(Natural Sciences)
(For Premedical and Predental Students)

The Natural Sciences curriculum for premedical and predental students presents a liberal arts program with emphasis on those sciences required for an adequate background for subsequent studies in medicine, in dentistry, and in similar professions. Recurrent pronouncements by Committees on Admissions at professional schools leave no doubt that they regard an education in the liberal arts as one of the most important factors in forming a genuinely capable and effective professional person. Students are advised to plan a four-year course.

If a student wishes to major in another area, he/she is free to do so. He/she should, however, seek advice from a member of the Committee for Health Sciences, the chairman of the appropriate department, and consult a current listing of professional school admission requirements* so that the selected course of studies will assure him/her of a degree and include all the minimum requirements for admission to those schools of medicine or dentistry to which he/she intends to apply.

The program includes, in addition to standard University graduation requirements, the following specific requirements: 19 semester hours in Biology, 21 semester hours in Chemistry, 8 semester hours in Physics, an additional 6-10 semester hours in a science concentration, and a 3 semester hour course in General Psychology. (The final requirement reduces the University requirement in social science by 3 semester hours.)

*Medical School Admission Requirements published by the Association of American Medical Colleges.

*Admission Requirements of U.S. and Canadian Dental Schools published by the American Association of Dental Schools.
**B.S. (Natural Sciences)**
(For Premedical and Predental Students)
**Recommended Sequence of Program**

<table>
<thead>
<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Ch 110—Gen. Chem. I</td>
<td>3</td>
<td>Ch 112—Gen. Chem. II</td>
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</tr>
<tr>
<td>Ch 111—Gen. Chem. I Lab</td>
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</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
<td>Mt 156—General Statistics</td>
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</tr>
<tr>
<td>Foreign Language*</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>En 101—English Composition@</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
<td>Total</td>
<td>18</td>
</tr>
<tr>
<td><strong>Sophomore Year</strong></td>
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<td></td>
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<tr>
<td>Ch 120—Prins. Physical Chem.</td>
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<td>Bl 300—Gen. Embryology</td>
<td>2</td>
</tr>
<tr>
<td>Ch 151—Analytical Chem.</td>
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<td>Bl 301—Gen. Embryology Lab</td>
<td>2</td>
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<tr>
<td>Ph 104—College Physics I</td>
<td>3</td>
<td>Ph 106—College Physics II</td>
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</tr>
<tr>
<td>Ph 105—Introductory Physics Lab I</td>
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<td>Ph 107—Introductory Physics Lab II</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
<td>Foreign Language</td>
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<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Total</td>
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<tr>
<td><strong>Junior Year</strong></td>
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<td></td>
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<tr>
<td>Bl 360—Vertebrate Physiology</td>
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<td>Bl 230—Genetics</td>
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<tr>
<td>Bl 361—Vertebrate Physiology Lab</td>
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<td>Ch 242—Organic Chem. II</td>
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<td>Ch 240—Organic Chem. I</td>
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<td>Ch 243—Organic Chem. II Lab</td>
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<td>Ch 241—Organic Chem. I Lab</td>
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<td>History II (100-level Elective)*</td>
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</tr>
<tr>
<td>History I (100-level Elective)*</td>
<td>3</td>
<td>Philosophy Area II</td>
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</tr>
<tr>
<td>Humanities Elective</td>
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<td>Theology Elective</td>
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</tr>
<tr>
<td>Total</td>
<td>14</td>
<td>Total</td>
<td>16</td>
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<td><strong>Senior Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch 190—Chemical Lit.*</td>
<td>1</td>
<td>Theology Elective</td>
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<tr>
<td>Ps 101—General Psychology</td>
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<td>Philosophy Area IV</td>
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<td>Theology Elective</td>
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<td>Social Science Elective</td>
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<tr>
<td>Philosophy Area III</td>
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<td>Bl 320-321, Ch, or Ph</td>
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<td>Bl 399, Ch 300, 399, or Ph</td>
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<td>Bl 310-311, Ch, or Ph**</td>
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<tr>
<td>Bl 398, Ch 300, 398, or Ph</td>
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<tr>
<td>Total</td>
<td>16-18</td>
<td>Total</td>
<td>12-14</td>
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</tbody>
</table>

* Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshman year and the start of language postponed to sophomore or junior years.
** Recommended of those planning to take Ch 398 and 399; otherwise the course need not be taken.
*** Student selects a senior year concentration of courses plus research in Biology, Chemistry, or Physics. Consult Chairmen for departmental offerings.
@ Required, unless exempted through a test-out program. See page 38.
# See Curricular Requirements, pages 36-38.
PREPHARMACY PROGRAM

Colleges of Pharmacy require a minimum of two years of undergraduate study and include certain required courses for admission. If the required courses have been completed, students may apply to a College of Pharmacy after three years of study or after earning a baccalaureate degree.

The curriculum outlined here satisfies the minimum preparation for admission to most Colleges of Pharmacy. It may be modified to meet other specific requirements of a particular College of Pharmacy. A current listing of such requirements* should be consulted by the student in order to plan a satisfactory program. The student is advised to meet regularly with a member of the Committee on Health Sciences so as to be well-informed about all current prerequisites and the procedures to be followed in applying for admission to a College of Pharmacy.

If the student plans to continue undergraduate education at Xavier University and to obtain a B.S. degree, this can be done easily in the case of the B.S. (Biology), B.S. (Chemical Science), and B.S. (Natural Sciences) programs. The student then should meet with the chairman of the appropriate science department for guidance in the choice of courses necessary for the desired degree.

*Pharmacy School Admission Requirements published by the American Association of Colleges of Pharmacy.
## Prepharmacy Program
### Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Mt 150—Elem. of Calculus I*</td>
<td>Mt 151—Elem. of Calculus II*</td>
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<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>Ch 112—Gen. Chemistry II</td>
</tr>
<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Ps 101—Gen. Psychology</td>
<td>En 101—English Composition%</td>
</tr>
</tbody>
</table>

**Freshman Year**

| Mt 150—Elem. of Calculus I* | Mt 151—Elem. of Calculus II* |
| Ch 110—Gen. Chemistry I | Ch 112—Gen. Chemistry II |
| Ch 111—Gen. Chemistry I Lab | Ch 113—Gen. Chemistry II Lab |
| Th 111—Intro. to Theology | Philosophy Area I |
| Ps 101—Gen. Psychology | En 101—English Composition% |

**Sophomore Year**

| Ch 240—Organic Chem. I | Ch 242—Organic Chem. II |
| Ch 241—Organic Chem. I Lab | Ch 243—Organic Chem. II Lab |
| Ph 104—College Physics I | Ph 106—College Physics II |
| Ph 105—Introductory Physics Lab I | Ph 107—Introductory Physics Lab II |
| Mt 146—Elementary Statistics | Bl 212—Bacteriology* |
| History I (100-level Elective)+ | Philosophy Area III |
| En—Literature | Ec 102—Microeconomic Principles |

**Total**

| 17 | 18 |

* If completed in high school, substitute literature course.
% If tested out, replace with literature. Required, unless exempted by a test-out program. See page 38.
+ Some Colleges of Pharmacy also require Bacteriology Lab (Bl 213).
* See Curricular Requirements, page 37.
Liberal Arts Degree With Business Option

The values inherent in a liberal arts education are attractive to many students. At the same time, students feel a need to prepare themselves for a career in later life. The Liberal Arts Degree with Business Option offers the nonbusiness students an opportunity of achieving both these goals by majoring in one of the arts or sciences while obtaining a solid introductory business background.

Students interested in the Business Option do the following. They choose a major in one of the humanities or sciences. The students then select the following business courses as free electives or appropriate University core courses:

Required courses in the Business Option:

- Ac 100' Principles of Accounting I ........................................... 3 sem. hrs.
- Ac 101' Principles of Accounting II ........................................... 3 sem. hrs.
- Ec 101 Macroeconomic Principles ........................................... 3 sem. hrs.
- Ec 102' Microeconomic Principles ........................................... 3 sem. hrs.
- Mk 100' Principles of Marketing ........................................... 3 sem. hrs.
- Fi 255' Business Finance .................................................. 3 sem. hrs.
  (prerequisite: Ac 101)

Other courses recommended but not required:

- IS 100 Principles of Data Processing ........................................... 3 sem. hrs.
- Mg 100 Principles of Management ........................................... 3 sem. hrs.
- BA 270' Business Statistics or
  - Mt 146 - Elementary Statistics or
  - Mt 156 - General Statistics ........................................... 3 sem. hrs
- Mt 150' Elements of Calculus or
  - Mt 170 - Calculus I .................................................. 3 sem. hrs

Undergraduate students may take Ec 101 and Ec 102 as social science electives in the core. Mt 146, Mt 156, Mt 150, and Mt 170 count as mathematics electives in most programs.

Asterisked courses are presently undergraduate prerequisites for Xavier's Master of Business Administration program.
# College of Arts and Sciences

## A.B. AND B.S. DEGREES

(Three-Year Programs)

**Designed to prepare students for Graduate Business Programs**

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<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
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<tr>
<td>En 101—English Composition*</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<td>Major I</td>
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<td>Major II</td>
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</tr>
<tr>
<td>History I (100-level Elective)*</td>
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<td>Philosophy Area II</td>
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<td>History II (100-level Elective)*</td>
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<td>Foreign Language</td>
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<td>Th 111—Intro. to Theology</td>
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<td>Major III</td>
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<td>Major V</td>
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<td>Major IV</td>
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<td>Major VI</td>
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<tr>
<td>Ec 101—Macroeconomic Principles</td>
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<td>Ec 102—Microeconomic Principles</td>
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<td>Mt 149—Elementary Functions</td>
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<td>Mt 150—Elements of Calculus I</td>
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</tr>
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<td>Humanities Elective (Lit.)</td>
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<td>Fi 255—Business Finance</td>
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</tr>
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<td><strong>Third Year</strong></td>
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<td>Major VII</td>
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<td>Major IX</td>
<td>3</td>
</tr>
<tr>
<td>Major VIII</td>
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<td>Major X</td>
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<td>Humanities Elective</td>
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<td>Theology Elective</td>
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<td>Theology Elective</td>
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<tr>
<td>Mk 100—Prin. of Marketing</td>
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<td>BA 270—Business Statistics</td>
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</tr>
<tr>
<td>Ac 100—Prin. of Accounting I</td>
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<td>Ac 101—Prin. of Accounting II</td>
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<tr>
<td><strong>Total</strong></td>
<td>18</td>
<td><strong>Total</strong></td>
<td>18</td>
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</table>

*See Curricular Requirements, pages 36-38.

†This program fulfills all University requirements for graduation in the College of Arts and Sciences with majors of 30 hours or less and for admittance into the Graduate Business Programs at Xavier University. It enables a student to complete the A.B. or B.S. and M.B.A. in four years.

For those majors requiring more than 30 semester hours and additional specific course requirements, such requirements must be fulfilled. The interested student should study carefully the requirements of the major and make necessary adjustments. Academic counseling is strongly recommended in such instances. While the above schedule provides for a total of 123 semester hours, this number of hours can be reduced through satisfactory "test outs" in English Composition, or in the language requirements. In all instances, however, the University requirement of 120 semester hours for a degree must be completed.
This program is designed to coordinate the education of undergraduate students at Xavier with graduate programs in the Duke University School of Forestry and Environmental Studies. Participating students are accepted into either of two Duke University degree programs, the Master of Forestry (M.F.) or Master of Environmental Management (M.E.M.). The M.F. emphasizes forest resources, and graduates are typically employed in administrative, managerial, or staff positions with forest industries and government agencies. The M.E.M. program considers natural resources in a broader context. Students find employment in such areas as resource development, environmental protection, impact assessment, land use analysis, and coastal zone management.

The curriculum which leads to the above degrees consists of six semesters of undergraduate study at Xavier University and an initial summer session and four semesters of graduate study at Duke University. The B.S. (Applied Biology) degree will be awarded by Xavier University upon satisfactory completion of one year of full-time study at Duke University. Upon satisfactory completion of the requirements for a master's degree, Duke University will award either the degree of M.F. or M.E.M., whichever is appropriate for the student's area of concentration at Duke University.
Xavier University—Duke University Cooperative Forestry and Environmental Management Program
B.S. (Applied Biology)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
</tr>
<tr>
<td>BI 111—Gen. Biology Lab</td>
<td>2</td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
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<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>19</td>
</tr>
</tbody>
</table>

| **Sophomore Year** | |
| BI 200—Gen. Botany | 2 | BI 250—Ecology | 3 |
| BI 201—Gen. Botany Lab | 2 | BI 251—Ecology Lab | 1 |
| Ph 104—College Physics I | 3 | Ph 106—College Physics II | 3 |
| Ph 105—Intro. Physics Lab I | 1 | Ph 107—Intro. Physics Lab II | 1 |
| Theology Elective | 3 | Philosophy Area III | 3 |
| History I (100-level Elective) | 3 | History II (100-level Elective) | 3 |
| Humanities Elective (Lit.) | 3 | Mt 156—Gen. Statistics | 3 |
| **Total** | 17 | **Total** | 17 |

| **Junior Year** | |
| BI 398—Methods of Biol. Research I | 1 | BI 399—Methods of Biol. Research II | 1 |
| Ch 240—Org. Chemistry I | 3 | Ch 242—Org. Chemistry II | 3 |
| Ch 241—Org. Chemistry I Lab | 1 | Ch 243—Org. Chemistry II Lab | 1 |
| Ec 101—Macroeconomic Principles | 3 | Ec 102—Microeconomic Principles | 3 |
| Theology Elective | 3 | Bl 212—Bacteriology | 2 |
| Philosophy Area IV | 3 | Bl 213—Bacteriology Lab | 2 |
| Humanities Elective | 3 | Bl 230—Genetics | 3 |
| **Total** | 17 | **Total** | 18 |

| **Senior Year** | |
| During the junior year the student should apply for admission to Duke University. The B.S. (Applied Biology) degree will be awarded by Xavier University upon satisfactory completion of one year of full-time study at Duke University.

If a student is unable to enter Duke University, arrangements should be made with the Biology Department Chairman to determine the senior year courses necessary for completion of requirements leading to the B.S. (Biology) degree.
COOPERATIVE SCIENCE—ENGINEERING PROGRAM

This course of studies is designed to provide a broad education in the physical sciences, mathematics, the liberal arts, and specialized training in a particular area of engineering.

Those students interested in Aerospace, Civil and Environmental, Electrical and Computer, Mechanical, Industrial, or Nuclear Engineering or Engineering Science should follow the Applied Physics program. Those interested in Metallurgical or Chemical Engineering should follow the Applied Chemistry program.

I. Academic Degrees

Upon completion of the requirements as specified below, the student will be awarded a B.S. (Applied Physics) or a B.S. (Applied Chemistry) degree by Xavier University and a degree in the appropriate area of engineering by the University of Cincinnati. The student will be awarded the B.S. degree from Xavier University at the completion of 133 semester hours, and the B.S. degree from the University of Cincinnati upon the successful completion of the college and department requirements for the appropriate engineering.

II. Curricular Calendar

A. Years 1 to 3
1. 94 semester hours (141 qtr. hrs.) of liberal arts and science courses at University.
2. Four prerequisite engineering courses at the University of Cincinnati—the courses to include the two in engineering graphics, plus two from the junior/senior years of the selected engineering curriculum.

B. Years 4 to 6 (All at the University of Cincinnati)
1. Approximately 72 semester hours (110 qtr. hrs.) of engineering courses
2. 9 semester hours (12 qtr. hrs.) of liberal arts courses
3. At least 4 quarters of work experience under the coop plan.
# Xavier University—University of Cincinnati Cooperative Engineering Program

## B.S. (Applied Chemistry)

**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
<td>3</td>
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<tr>
<td>Ch 115—Gen. Chemistry I Lab</td>
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<td>Ch 115—Gen. Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>Mt 170—Calculus I</td>
<td>4</td>
<td>Mt 171—Calculus II</td>
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<tr>
<td>Ph 108—Univ. Physics I</td>
<td>3</td>
<td>Ph 110—Univ. Physics II</td>
<td>3</td>
</tr>
<tr>
<td>Ph 105—Intro. Physics Lab I</td>
<td>1</td>
<td>Ph 107—Intro. Physics Lab II</td>
<td>1</td>
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<tr>
<td>Computer Science</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
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<td></td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>Ch 230—Physical Chemistry I</td>
<td>3</td>
<td>Ch 232—Physical Chemistry II</td>
<td>3</td>
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<tr>
<td>Mt 172—Calculus III</td>
<td>3</td>
<td>Mt 215—Differential Equations</td>
<td>3</td>
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<td>Philosophy Area III</td>
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<td>Theology Elective</td>
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<td>En 115—Rhetoric</td>
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<td>Humanities Electives (Lit.)</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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<tr>
<th>Junior Year</th>
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<tbody>
<tr>
<td>Ch 240—Organic Chemistry I</td>
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<td>Ch 242—Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Ch 241—Organic Chemistry I Lab</td>
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<td>Ch 243—Organic Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>Mt 220—Advanced Calculus I</td>
<td>3</td>
<td>Ch 330—Physical Chemistry III</td>
<td>2</td>
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<td>History I (100-level Elective)@</td>
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<td>Mt 230—Advanced Calculus II</td>
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</tr>
<tr>
<td>Philosophy Area IV</td>
<td>3</td>
<td>History II (100-level Elective)@</td>
<td>3</td>
</tr>
<tr>
<td>Engineering (U.C.)</td>
<td>4</td>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>18</td>
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</tbody>
</table>

A B.S. (Applied Chemistry) will be awarded upon the completion of an additional 9 sem. hours of liberal-arts courses and 22 sem. hours of engineering courses.

* These courses offered in alternate years.
@ See Curricular Requirements, page 36.
# Xavier University—University of Cincinnati

## Cooperative Engineering Program

### B.S. (Applied Physics)

#### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Ph 108—Univ. Physics I</td>
<td>3</td>
<td>Ph 110—Univ. Physics II</td>
<td>3</td>
</tr>
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<td>Ph 105—Intro. Physics Lab I</td>
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<td>Ph 107—Intro. Physics Lab II</td>
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<tr>
<td>Mt 170—Calculus I</td>
<td>4</td>
<td>Mt 171—Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Computer Science</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
<td>History II (100-level Elective)@</td>
<td>3</td>
</tr>
<tr>
<td>History I (100-level Elective)@</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

| Sophomore Year | | | |
| Ph 242—Electronics I’ | 2 | Ph 244—Electronics II’ | 2 |
| Ph 243—Electronics I Lab’ | 1 | Ph 245—Electronics II Lab’ | 1 |
| Mt 172—Calculus III | 3 | Mt 215—Differential Equations | 3 |
| Ch 110—Gen. Chemistry I | 3 | Ch 112—Gen. Chemistry II | 3 |
| Ch 111—Gen. Chemistry I Lab | 1 | Ch 113—Gen. Chemistry II Lab | 1 |
| Philosophy Area III | 3 | Theology Elective | 3 |
| En 115—Rhetoric | 3 | | |
| **Total** | **19** | **Total** | **16** |

| Junior Year | | | |
| Ph 366—Atomic Physics’ | 3 | Ph 374—Nuclear Physics’ | 3 |
| Ph 375—Atomic Physics Lab’ | 1 | Ph 381—Nuclear Physics Lab’ | 1 |
| Ph 352—Electromagnetism’ | 3 | Ph 364—Optics’ | 3 |
| Mt 220—Advanced Calculus I | 3 | Mt 230—Advanced Calculus II’’ | 2 |
| Philosophy Area IV | 3 | Theology Elective | 3 |
| Engineering (U.C.) | 4 | Humanities Elective | 3 |
| Engineering (U.C.) | 4 | | |
| **Total** | **17** | **Total** | **19** |

A B.S. (Applied Physics) will be awarded upon the completion of an additional 9 sem. hours of liberal arts courses and 22 sem. hours of engineering courses.

@ See Curricular Requirements, page 36.
* These courses offered in alternate years.
** Recommended but not required.
Degree Programs—
College of Business Administration

The College of Business Administration offers the Bachelor of Science in Business Administration in the following concentrations: Accounting, Economics, Finance, Industrial Relations, Information Systems, Management, and Marketing. The degree programs provide the student with a broad preparation in the field of business administration together with intensive background in his major. Additionally, the degree integrates the concept of a liberal education, since the student in the College of Business Administration also fulfills the general University curriculum required of all students.

General University curricular requirements are described on pages 36-38 of this catalogue. Requirements in the major are listed in the degree programs which immediately follow this page. College of Business Administration core curriculum requirements for all majors are as follows:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting I, II</td>
<td>6</td>
</tr>
<tr>
<td>Ec 101, 102</td>
<td>Macroeconomic Principles, Microeconomic Principles</td>
<td>6</td>
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<tr>
<td>Ir 100</td>
<td>Principles of Data Processing</td>
<td>3</td>
</tr>
<tr>
<td>Ir 210</td>
<td>Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>Fi 250</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Fi 255</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Mg 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Mk 100</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>Ba 270</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Ba 280</td>
<td>Legal Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Total ........................................ 36
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Accounting)

The program in accounting is designed to provide intensive training of a comprehensive nature for the adequate preparation of public, private or governmental accounts. The advanced courses which elaborate on the theory and practice of accounts, business analysis, costs, auditing and specialized accounting culminate in preparation for the CPA and CMA examinations.

Students majoring in accounting must complete the following courses in the major: Ac 100 and 101 Principles of Accounting I, II; Ac 200 and 201 Intermediate Accounting I, II; Ac 220 and 221 Cost Accounting I, II; Ac 230 Taxation; Ac 310 Advanced Accounting; and Ac 320 Auditing.

Students are encouraged to use at least one of their free electives for an additional accounting course to be better prepared for their professional careers.

Other requirements for the degree are included in the University core curriculum requirements and the core curriculum requirements in the College of Business Administration. Electives to fulfill University minimum degree requirements provide a latitude for additional student interests.
B.S.B.A. (Accounting)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td><strong>Freshman Year</strong></td>
</tr>
<tr>
<td>Ac 100—Prin. of Accounting I</td>
<td>Ac 101—Prin. of Accounting II</td>
</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>Ec 102—Microeconomic Principles</td>
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<tr>
<td>Mt 149—Elementary Functions@</td>
<td>Mt 150—Elements of Calculus I</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>Th 111—Intro. to Theology</td>
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<tr>
<td>En 101—English Composition*</td>
<td>IS 100—Prin. of Data Processing</td>
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<td><strong>Total</strong></td>
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<table>
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<tr>
<th><strong>Sophomore Year</strong></th>
<th><strong>Sophomore Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ac 200—Intermediate Accounting</td>
<td>Ac 201—Intermediate Accounting II</td>
</tr>
<tr>
<td>Fi 255—Business Finance</td>
<td>BA 270—Business Statistics</td>
</tr>
<tr>
<td>Mk 100—Prin. of Marketing</td>
<td>Mg 100—Prin. of Management</td>
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<td>Philosophy Area II</td>
<td>Theology Elective</td>
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<td>Humanities Elective</td>
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<table>
<thead>
<tr>
<th><strong>Junior Year</strong></th>
<th><strong>Junior Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ac 220—Cost Accounting I</td>
<td>Ac 221—Cost Accounting II</td>
</tr>
<tr>
<td>Ac 230—Taxation**</td>
<td>Ac 310—Advanced Accounting**</td>
</tr>
<tr>
<td>Philosophy Area III</td>
<td>Elective</td>
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<td>Humanities Elective</td>
<td>Theology Elective</td>
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<table>
<thead>
<tr>
<th><strong>Senior Year</strong></th>
<th><strong>Senior Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ac 320—Auditing**</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>BA 280—Legal Environment</td>
<td>Theology Elective</td>
</tr>
<tr>
<td>IR 210—Human Resources</td>
<td>Philosophy Area IV</td>
</tr>
<tr>
<td>Fi 250—Money and Banking</td>
<td>Social Science Elective</td>
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<tr>
<td>Social Science Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 37.
** Offered both semesters.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Economics)

The economics program in the College of Business Administration provides the student with principles and procedures of the individual firm, industry, and the economy as a whole. Such training prepares the student to recognize the problem, to analyze it objectively, and to offer a proper solution. For this purpose, courses in economics relate managerial decision-making within the firm to external economic factors which may affect the very existence of the firm or the entire industry. Economics majors, supported by the knowledge of functional tools acquired from other business disciplines, analyze such areas as inflation, unemployment, competition, monopoly power, industrial pricing, government regulation, and foreign trade.

The program is beneficial to those who wish to assume positions as professional economists, either public or private; business analysts; investment analysts; business executives; and labor leaders. It is also a very appropriate major for a degree in law, since many current legal issues and controversies arise from problems in the economic system.

Requirements in the concentration include: Ec 200 Microeconomic Analysis; Ec 201 Macroeconomic Analysis; and fifteen (15) hours of economics electives, at least six (6) hours of which must be 300-level courses.

*Three (3) hours of industrial relations courses (other than IR 210) may be substituted for three (3) hours of economics courses.*
# B.S.B.A. (Economics)

## Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Ac 100—Prin. of Accounting I</td>
<td>Ac 101—Prin. of Accounting II</td>
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<tr>
<td>Mt 149—Elementary Functions</td>
<td>Mt 150—Elements of Calculus I</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>IS 100—Prin. of Data Processing</td>
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<tr>
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<td><strong>Total</strong></td>
</tr>
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</table>

| **Sophomore Year** | |
| BA 280—Legal Environment | BA 270—Business Statistics |
| IR 210—Human Resources | Fl 255—Business Finance |
| Mg 100—Prin. of Management | Mk 100—Prin. of Marketing |
| Philosophy Area II | Theology Elective |
| Ec 200—Microeconomic Analysis | Ec 201—Macroeconomic Analysis |
| **Total** | **Total** |
| 15 | 15 |

| **Junior Year** | |
| Ec 250—Money and Banking | Theology Elective |
| Philosophy Area III | Science Elective |
| Science Elective | Social Science Elective |
| Social Science Elective | Humanities Electives |
| Ec—Elective | **Total** |
| **Total** | 15 |

| **Senior Year** | |
| Ec—Electives*** | Ec—Electives*** |
| Philosophy Area IV | Theology Elective |
| Humanities Electives | Electives |
| **Total** | **Total** |
| 15 | 15 |

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, page 37.
*** See requirements for concentration on previous page (page 122).
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Finance)

The Bachelor of Science in Business Administration program in finance develops an appreciation in the student of financial management and financial operation. Everyone majoring in finance must take three basic courses designed to acquaint him with the various financial records of the firm, the character and appraisal of corporate securities, and the financial techniques applicable to the various phases of this discipline. In addition, the student may choose elective subjects. This permits him to aim at a particular segment of finance such as corporate finance, security sales, etc. Certain courses are offered each semester. Others are cycled every other semester or every other year to provide the greatest diversification possible. Majors in finance will be offered opportunities to inspect various financial institutions and to meet with professionals in the field.

Specific requirements in the finance concentration include the following courses: Fi 255 Business Finance; Fi 265 Investments; Fi 301 Financial Management; Fi 351 Applied Quantitative Methods for Business; Fi 380 Cases and Problems in Finance; and nine (9) semester hours of upper division finance and approved accounting electives. At least three (3) semester hours must be taken in finance and three (3) semester hours in approved accounting electives.

All finance majors are strongly urged to take Ac 200 and 201 Intermediate Accounting I, II.
# B.S.B.A. (Finance) Recommended Sequence of Program

--- | --- | --- | ---
**Freshman Year**
Ac 100—Prin. of Accounting I | 3 | Ac 101—Prin. of Accounting II | 3
Ec 101—Macroeconomic Principles | 3 | Ec 102—Microeconomic Principles | 3
Mt 149—Elementary Functions | 3 | Mt 150—Elements of Calculus I | 3
Th 111—Intro. to Theology | 3 | Philosophy Area I | 3
En 101—English Composition | 3 | IS 100—Prin. of Data Processing | 3
**Total** | 15 | **Total** | 15

**Sophomore Year**
Mg 100—Prin. of Management | 3 | BA 270—Business Statistics | 3
Fi 255—Business Finance | 3 | Fi 301—Financial Management | 3
Mk 100—Prin. of Marketing | 3 | IR 210—Human Resources | 3
Philosophy Area II | 3 | Theology Elective | 3
Humanities Elective | 3 | Humanities Elective | 3
**Total** | 15 | **Total** | 15

**Junior Year**
Ec 250—Money and Banking | 3 | BA 280—Legal Environment | 3
Philosophy Area III | 3 | Fi 265—Investments | 3
Fi 331—Appl. Quant. Meth. for Bus. | 3 | Theology Elective | 3
Science Elective | 3 | Science Elective | 3
Fi—Elective | 3 | Social Science Elective | 3
**Total** | 15 | **Total** | 15

**Senior Year**
Fi 380—Cases and Prob. in Finance | 3 | Social Science Elective | 3
Fi—Elective | 3 | Humanities Elective | 3
Philosophy Area IV | 3 | Fi—Elective | 3
Elective | 3 | Theology Elective | 3
Humanities Elective | 3 | Elective | 3
**Total** | 15 | **Total** | 15

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 37.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Industrial Relations)

In an industrial society which is becoming more complex and interdependent, the need in the area of industrial relations for leaders with a well-rounded professional training is a necessity. This program is designed to provide specific knowledge of labor and is supported by a strong cultural background in the liberal arts. In accordance with these objectives, industrial relations courses examine collective bargaining procedures, legislation relative to labor-management relations, and the contributions of labor in the production process. The study of industrial relations is approached from the economic, social, political, and psychological aspects of labor-management relations. In addition to courses in industrial relations and the liberal arts, courses in marketing, accounting, economics, finance, and management provide a strong background for a broad understanding of the business world. The industrial relations major prepares the student for a leadership role in employee relations, personnel, government, or service organizations.

The concentration requires the following courses: IR 300 Labor Relations; IR 330 Industrial Psychology; and twelve (12) hours* of electives in the specialized field of Industrial Relations.

*Three (3) hours of economics courses (other than Ec 101, Ec 102, and Ec 250) may be substituted for three (3) hours of industrial relations courses.
B.S.B.A. (Industrial Relations)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
</tr>
<tr>
<td>Ac 100—Prin. of Accounting I</td>
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<td>Ac 101—Prin. of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>3</td>
<td>Ec 102—Microeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>Mt 149—Elementary Functions*</td>
<td>3</td>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>IS 100—Prin. of Data Processing</td>
<td>3</td>
<td>En 101—English Composition*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

| **Sophomore Year** | | | |
| BA 280—Legal Environment | 3 | BA 270—Business Statistics | 3 |
| IR 210—Human Resources | 3 | Fi 255—Business Finance | 3 |
| Mt 100—Prin. of Management | 3 | Mk 100—Prin. of Marketing | 3 |
| Philosophy Area II | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| **Total** | **15** | **Total** | **15** |

| **Junior Year** | | | |
| IR—Elective*** | 3 | IR 300—Labor Relations | 3 |
| Philosophy Area III | 3 | IR—Elective*** | 3 |
| Science Elective | 3 | Theology Elective | 3 |
| Social Science Elective | 3 | Science Elective | 3 |
| Elective | 3 | Social Science Elective | 3 |
| **Total** | **15** | **Total** | **15** |

| **Senior Year** | | | |
| IR 330—Industrial Psychology | 3 | Ec 250—Money and Banking | 3 |
| IR—Elective*** | 3 | IR—Elective*** | 3 |
| Philosophy Area IV | 3 | Theology Elective | 3 |
| Elective | 3 | Humanities Elective | 3 |
| Humanities Elective | 3 | Elective | 3 |
| **Total** | **15** | **Total** | **15** |

* Required, unless exempted through a test-out program. See page 38.
** See Curricular Requirements, page 37.
*** See requirements for concentration on previous page (page 126).
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Information Systems)

Contributions of the business world to society are largely dependent on good management via information systems.

The objectives of the University Information Systems Program are to facilitate such contributions by:

1. Providing specialized professional training in information systems principles and techniques.
2. Stimulating the application of sound information systems to the wide range of business activities.
3. Aiding in the development of the student's intellect and personality to prepare for the dynamic field of computer information systems.

The number of required hours for an information systems major is 24, including the required beginning course (IS 100 Principles of Data Processing). Required courses are as follows:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 100</td>
<td>Principles of Data Processing</td>
<td>3</td>
</tr>
<tr>
<td>IS 200</td>
<td>Data Organization</td>
<td>3</td>
</tr>
<tr>
<td>IS 331</td>
<td>Applied Quant. Methods for Business</td>
<td>3</td>
</tr>
<tr>
<td>IS 350</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>IS 352</td>
<td>Data Processing Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 364</td>
<td>COBOL Programming</td>
<td>3</td>
</tr>
<tr>
<td>IS or CS Electives</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

The B.S.B.A. (Information Systems) degree is designed for individuals who aspire to a career in one of the following positions:

- Programmer/Analyst
- Systems Analyst
- Information Systems Manager
# B.S.B.A. (Information Systems)

## Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Ac 100—Prin. of Accounting I</td>
<td>3</td>
<td>Ac 101—Prin. of Accounting II</td>
<td>3</td>
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<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>3</td>
<td>Ec 102—Microeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>Mt 149—Elementary Functions @</td>
<td>3</td>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>En 101—English Composition *</td>
<td>3</td>
</tr>
<tr>
<td>IS 100—Prin. of Data Processing</td>
<td>3</td>
<td>IS 200—Data Organization</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

| Sophomore Year | | | |
| Mt 150—Elements of Calculus I | 3 | Mg 100—Prin. of Management | 3 |
| Philosophy Area II | 3 | Mk 100—Prin. of Marketing | 3 |
| Humanities Elective | 3 | BA 280—Legal Environment | 3 |
| IS 350—Systems Analysis and Design | 3 | Theology Elective | 3 |
| **Total** | **15** | **Total** | **15** |

| Junior Year | | | |
| IR 210—Human Resources | 3 | BA 270—Business Statistics | 3 |
| IS 364—COBOL Programming | 3 | Theology Elective | 3 |
| Philosophy Area III | 3 | Science Elective | 3 |
| Science Elective | 3 | Social Science Elective | 3 |
| Social Science Elective | 3 | Humanities Elective | 3 |
| **Total** | **15** | **Total** | **15** |

| Senior Year | | | |
| IS—Elective | 3 | IS—Elective | 3 |
| Humanities Elective | 3 | Ec 250—Money and Banking | 3 |
| Philosophy Area IV | 3 | Humanities Elective | 3 |
| Elective | 3 | Elective | 3 |
| IS 331—Appl. Quant. Meth. for Bus. | 3 | Theology Elective | 3 |
| **Total** | **15** | **Total** | **15** |

* Required; unless exempted through a test-out program. See page 38.

@ See Curricular Requirements, page 37.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Management)

Contributions of the business world to society are largely dependent on good management.

The objectives of this program are to facilitate such contributions by:

1. Providing specialized professional training in the principles and the practices for the effective operation of the business organization.
2. Stimulating the application of sound philosophical principles to the wide range of problems encountered by management.
3. Aiding in the development of the student's intellect and personality in preparation for leadership in society.

The number of required hours for a management major is 24, including the required beginning course (Mg 100 Principles of Management). Required courses are as follows:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mg 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Mg 302</td>
<td>Production Management</td>
<td>3</td>
</tr>
<tr>
<td>Mg 310</td>
<td>Organization Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Mg 315</td>
<td>Organizational Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>Mg 323</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>Mg 331</td>
<td>Applied Quant. Methods for Business</td>
<td>3</td>
</tr>
<tr>
<td>Mg 395</td>
<td>Case Studies in Management</td>
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</tr>
<tr>
<td>Mg Elective</td>
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<td>3</td>
</tr>
</tbody>
</table>

The B.S.B.A. degree in management is designed for individuals who have career aspirations among the following job opportunities:

- Management trainee
- Personnel trainee
- Business education* 
- Prelaw 

*Students interested in teaching certification in Business should consult with the Chairman of the Education Department for certification requirements.
# B.S.B.A. (Management)
## Recommended Sequence of Program

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Ac 100—Prin. of Accounting I</td>
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<td>Ac 101—Prin. of Accounting II</td>
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</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
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<td>Ec 102—Microeconomic Principles</td>
<td>3</td>
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<tr>
<td>Mt 149—Elementary Functions</td>
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<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
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<tr>
<td>Philosophy Area I</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>IS 100—Prin. of Data Processing</td>
<td>3</td>
<td>En 101—English Composition*</td>
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<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

| **Sophomore Year** | | | |
| BA 280—Legal Environment | 3 | BA 270—Business Statistics | 3 |
| IR 210—Human Resources | 3 | Fi 255—Business Finance | 3 |
| Mg 100—Prin. of Management | 3 | Mk 100—Prin. of Marketing | 3 |
| Philosophy Area II | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Junior Year** | | | |
| Mg 310—Organization Behavior | 3 | Mg 331—Appl. Quant. Meth. for Bus. | 3 |
| Philosophy Area III | 3 | Mg 315—Organ. Theory and Design | 3 |
| Science Elective | 3 | Theology Elective | 3 |
| Social Science Elective | 3 | Science Elective | 3 |
| Humanities Elective | 3 | Social Science Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** | | | |
| Mg 302—Production Management | 3 | Ec 250—Money and Banking | 3 |
| Mg 323—Business Communications | 3 | Mg 395—Case Studies in Management | 3 |
| Philosophy Area IV | 3 | Mg—Elective | 3 |
| Electives | 6 | Theology Elective | 3 |
| **Total** | 15 | **Total** | 15 |

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 37.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Marketing)

Marketing is the dynamic process by which individuals and organizations strive to anticipate and satisfy consumers' product needs and wants. In a free enterprise, freedom of choice society, this is accomplished through marketing research, product planning and pricing, promotion (advertising and selling), and distribution.

The marketing major develops an understanding of the concepts, functions and institutions of marketing, an appreciation of consumer orientation, and the ability to analyze marketing problems and formulate marketing policies.

This program is particularly relevant to the student planning a career in sales, advertising, consumer relations, merchandising, brand management, marketing management, marketing research, retailing services, purchasing, business logistics, small business operations, executive management, consulting, business education, or work in certain government agencies.

Students seeking the B.S.B.A. (Marketing) degree must fulfill the following requirements in the major: Mk 100 Principles of Marketing (this is fulfilled in the general core curriculum requirements in the College of Business Administration); Mk 202 Marketing Research; Mk 204 Marketing Management; Mk 299 Marketing Planning and Analysis; Mk 331 Applied Quantitative Methods for Business, and nine (9) semester hours of electives in upper division courses in marketing.

Electives are available in various aspects of the general University core curriculum and as free electives to satisfy special student interests and needs and to complete the minimal degree requirements.
# B.S.B.A. (Marketing)
## Recommended Sequence of Program

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
</tr>
<tr>
<td>Ac 100—Prin. of Accounting I</td>
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<td>Ac 101—Prin. of Accounting II</td>
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<td>Mt 149—Elementary Functions@</td>
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<td>Mt 150—Elements of Calculus I</td>
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<tr>
<td>Philosophy Area I</td>
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<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>IS 100—Prin. of Data Processing</td>
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<td>En 101—English Composition</td>
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</tr>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>15</td>
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<table>
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<tr>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>BA 280—Legal Environment</td>
<td>3</td>
<td>BA 270—Business Statistics</td>
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</tr>
<tr>
<td>IR 210—Human Resources</td>
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<td>Fi 255—Business Finance</td>
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<td>Mg 100—Prin. of Management</td>
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<td>Mk 100—Prin. of Marketing</td>
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<td>Philosophy Area II</td>
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<td>Humanities Elective</td>
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<td>Humanities Elective</td>
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<tr>
<th>Junior Year</th>
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<td>Mk—Elective</td>
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<td>Social Science Elective</td>
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<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Mk 331—Appl. Quant. Meth. for Bus</td>
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<td>Theology Elective</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Ec 250—Money and Banking</td>
<td>3</td>
<td>Mk 299—Marketing Planning and Analysis</td>
<td>3</td>
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<tr>
<td>Mk 204—Marketing Management</td>
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<td>Mk—Elective</td>
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<td>Philosophy Area IV</td>
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<td>Humanities Elective</td>
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<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

* Required, unless exempted through a test-out program. See page 38.
@ See Curricular Requirements, page 37.
Degree Programs —
Edgecliff College
THE BACHELOR OF ARTS (Art)

The Department of Art aims to provide not so much a series of courses as an integrated way of life in which the student, through art experiences, grows in awareness and response to both spiritual and material values.

The potential artist, through a discovery of the heritage of the past and the richness of the present and with opportunity for studio practice under competent guidance, is enabled to make a significant personal contribution to one or more of the following areas which correspond to the Department's tracks:

- Fine Arts
- Hand Crafts
- Art Education
- Art Therapy
- History of Art

These tracks are interdependent; the student is not made to conform to the track, the track is made to meet the needs of the student.

Requirements For A Major In Art

The A.B. degree requires:

1. Forty semester hours in art with thirty well-distributed in studio courses; ten in history of art courses. Participation in Freshman Seminar, Senior Seminar, and Criticism is mandatory and may be used to satisfy part of the History of Art requirements.

2. Extended experience (minimum of two semesters) in one area leading to a senior concentration and exhibition if concentration is in a studio area.

NOTE: In the Spring of the sophomore year the prospective art major will present a portfolio and, for acceptance, must give evidence of growth in the totality of the Edgecliff program and in an understanding of the wholeness of this special approach.

*Due to a firm commitment to the liberal arts, the Department is eager to assist the student in planning an integrated program involving the other disciplines included in the core curriculum of the University.
The relationship of the Art Education Track to the Edgecliff College core is as follows:

Art Major ............... 40 hrs. (50 sem. hrs. for K-12)  
(30 sem. hrs. for 7-12)  
Education Certification ........... 30 hrs.  
Philosophy ....................... 9 hrs.  
Theology .......................... 9 hrs.  
Philosophy/Theology .............. 6 hrs.  
Humanities Literature ............. 6 hrs.  
Humanities Elective ... included in major  
Mathematics ...................... 6 hrs.  
Science ............................ 6 hrs.  
Social Science .................... 6 hrs.  
History ............................. 6 hrs.  
Foreign Language† .............. 12 hrs.  
Electives ........................ 11 hrs.  
English Composition† ............ 3 hrs.  

Total Sem. Hrs. ............ 133

The relationship of the Fine Arts, Hand Crafts, Art Therapy, and History of Art Tracks to the Edgecliff College core is as follows:

Art Major ....................... 40 hrs.  
Philosophy ....................... 9 hrs.  
Theology .......................... 9 hrs.  
Philosophy/Theology .............. 6 hrs.  
Humanities Literature ............. 6 hrs.  
Humanities Elective ... included in major  
Mathematics ...................... 6 hrs.  
Science ............................ 6 hrs.  
Social Science .................... 6 hrs.  
History ............................. 6 hrs.  
Foreign Language† .............. 12 hrs.  
Electives ........................ 11 hrs.  
English Composition† ............ 3 hrs.  

†Required, unless exempted through a test-out program.
THE BACHELOR OF FINE ARTS (Art)

The B.F.A. degree in art is distinguished from the A.B. degree in art, with a concentration in Fine Arts, by its intensity and structure.

Students seeking a B.F.A. degree in art usually have full determination to pursue their livelihood as professional artists or are thinking of acquiring an M.F.A. degree for university/art school teaching.

It is a higher degree and immediately acknowledges the fact that its recipient has experienced a deeper involvement in, and commitment to art. Since these students are also seeking a liberal arts education our philosophical base is the same.

<table>
<thead>
<tr>
<th>B.F.A. Degree</th>
<th>B.F.A. in relation to the Edgecliff core</th>
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</thead>
<tbody>
<tr>
<td>Ar 100—Seminar</td>
<td>Art Major</td>
</tr>
<tr>
<td></td>
<td>1 hr.</td>
</tr>
<tr>
<td>Ar 101—Design</td>
<td>Philosophy</td>
</tr>
<tr>
<td></td>
<td>2 hrs.</td>
</tr>
<tr>
<td>Ar 102—Drawing</td>
<td>Theology</td>
</tr>
<tr>
<td></td>
<td>3 hrs.</td>
</tr>
<tr>
<td>Ar 105—Sculpture</td>
<td>Philosophy/Theology</td>
</tr>
<tr>
<td></td>
<td>3 hrs.</td>
</tr>
<tr>
<td>Major Studio Area (includes senior concentration)</td>
<td>Humanities Literature</td>
</tr>
<tr>
<td></td>
<td>15 hrs.</td>
</tr>
<tr>
<td>Allied Studio Area</td>
<td>Mathematics</td>
</tr>
<tr>
<td></td>
<td>12 hrs.</td>
</tr>
<tr>
<td>History of Art</td>
<td>Science</td>
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<tr>
<td></td>
<td>12 hrs.</td>
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<tr>
<td>Art Electives</td>
<td>Social Science</td>
</tr>
<tr>
<td></td>
<td>18 hrs.</td>
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<tr>
<td>Ar 440—Criticism</td>
<td>History</td>
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<tr>
<td></td>
<td>2 hrs.</td>
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<tr>
<td>Ar 441—Seminar</td>
<td>Foreign Language</td>
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<tr>
<td></td>
<td>2 hrs.</td>
</tr>
<tr>
<td></td>
<td>English Composition</td>
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<tr>
<td></td>
<td>3 hrs.</td>
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<td>Total Sem. Hrs.</td>
<td>70</td>
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<tr>
<td></td>
<td>Total Sem. Hrs.</td>
</tr>
<tr>
<td></td>
<td>139</td>
</tr>
</tbody>
</table>

It should be noted that in order to complete a degree in the regular four-year sequence a student would need to carry approximately 18 credit hours per semester. Most students seeking this degree, however, are very competent and would probably have some advanced standing in regard to the core. It is also usual for these students to take courses during the intersession and summer sessions.

The sophomore portfolio and senior exhibition requirements are the same as listed for the A.B. degree.

A recommended sequence of program is available. Please direct requests to Department Chairman.
# A.B. (Art)

## Field of Concentration—Fine Arts

### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ar 100—Seminar</td>
<td>1</td>
<td>Ar 105—Sculpture</td>
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† A recommended sequence of program is available for each of the tracks. Please direct requests to Department Chairman.
THE BACHELOR OF SCIENCE
(Consumer Science)

The mission of the Department of Consumer Science is the education of students in the satisfaction of basic human needs—food, clothing, and shelter. This orientation toward human services on a pragmatic level is supplemented and enriched by the broad educational background inherent in the college core. Students are encouraged to develop a personal philosophy and a set of realistic values for living in today's world. The Department provides courses of study for students wishing to become competent in the expanding fields of Fashion Merchandising and Consumer Science. Both programs emphasize the fabrication and distribution of goods and services as well as the consumer aspect in which we all share. These majors also provide a preparation for graduate study in these areas.

Students take thirty hours of consumer science courses: six in required courses and four from approved electives. At the completion of either program, whether or not the student is planning to enter a field as a professional, he or she will be an educated consumer capable of making intelligent selections of goods, commodities, and services for self, family, or organizations.

The student selects one of the concentrations available and follows the four-year program outlined on the following pages. In addition to Fashion Merchandising and General Consumer Science, it is possible to complete a program in conjunction with the Department of Education leading to teaching certification in the area of Home Economics.
**B.S. (General Consumer Science)**

**Recommended Sequence of Program**

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<td>CM 121—Styles and Fashion</td>
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<td>CM 305—Principles of Nutrition</td>
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<td>CM 312—Resources for Modern Life Styles</td>
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* Required, unless exempted through a test-out program. See page 38.
This woman's craft is exemplary of one of the more practical course approaches that are used to supplement theoretical study in Consumer Science: the basics are not ignored. The same dexterity carries over to examination of production techniques.
**B.S. (Fashion Merchandising)**

**Recommended Sequence of Program**

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<td>CM 229—Fashion Design</td>
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<td>CM 329—Fashion Merchandising</td>
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* Required, unless exempted through a test-out program. See page 38.
THE BACHELOR OF SCIENCE
(Criminal Justice)

The curriculum for criminal justice majors preparing for careers is designed to provide concepts, skills, and attitudes necessary for functioning with competence and conscience. For non-career students, a wider knowledge of important issues required for involved and informed citizen participation in the criminal justice system and its operations is acquired along with ethical considerations related to concepts of justice in contemporary society.

Students majoring in criminal justice must complete 30 hours including the following courses:

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<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tr>
<td>CJ 101</td>
<td>Introduction to Criminal Justice</td>
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<tr>
<td>CJ 102</td>
<td>Introduction to Law Enforcement</td>
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<tr>
<td>CJ 210</td>
<td>Basic Constitutional Law</td>
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<td>CJ 221</td>
<td>Juvenile Justice in a Changing Society</td>
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<tr>
<td>CJ 230</td>
<td>The American Courts</td>
<td>3</td>
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</table>

In addition, CJ 291 Practicum in Criminal Justice (3 sem. hrs.) consisting of supervised placement in criminal justice agencies, and CJ 281 Methods of Criminal Justice Research (3 sem. hrs.) providing exposure to applied research in the subject area, are required of all students.

Criminal justice majors are also required to choose 15 elective hours.

The criminal justice student advisor consults individually with each major in course selections.
### B.S. (Criminal Justice)

**Recommended Sequence of Program**

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| Sophomore Year | | | |
| CJ 260—Current Issues in CJ | 3 | CJ 210—Basic Constitutional Law | 3 |
| Theology Elective | 3 | Foreign Language | 3 |
| Foreign Language | 3 | CJ 102—Intro. to Law Enforcement | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| Mt 146—Elementary Statistics | 3 | Mt—Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| Junior Year | | | |
| Theology Elective | 3 | Philosophy Area III | 3 |
| Humanities Elective | 3 | CJ 230—The American Courts | 3 |
| Social Science Elective | 3 | Humanities Elective (Lit.) | 3 |
| Philosophy Area II | 3 | Social Science Elective | 3 |
| **Total** | 15 | **Total** | 15 |

| Senior Year | | | |
| CJ—Electives | 6 | CJ 291—Practicum | 3 |
| CJ 281—Research Meth. in CJ | 3 | Theology/Philosophy Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Theology/Philosophy Elective | 3 | Elective | 3 |
| Elective (or CJ Elective) | 3 | **Elective (or CJ Elective)** | 3 |
| **Total** | 15 | **Total** | 15 |

* Required, unless exempted through a test-out program. See page 38.
THE BACHELOR OF ARTS (Music)
THE BACHELOR OF SCIENCE
(Music Education)

The Department of Music offers two degree programs: the Bachelor of Arts in music and, in conjunction with the Department of Education, the Bachelor of Science in music education.

Students pursuing the Bachelor of Arts degree in music must complete a total of forty-two (42) hours in the major. Required courses include: Mu 201-202, 210-211, 301-302, 303, 310-311, 324. A minimum of eight hours in the major instrument or voice and participation in a vocal and/or instrumental ensemble are required.

Students pursuing the Bachelor of Science degree in music education must complete fifty-two (52) hours in music and related music education courses. Required courses include: Mu 122, 201-202, 221-222, 301-302, 304, 324-325, 326, 327, 328 and 401. In addition, students are required to take a minimum of eight hours in applied music and to participate in an ensemble for four semesters. For required education courses, see Teacher Certification on page 70.

All music and music education majors must pass a piano proficiency examination before the senior year.

Students are admitted to the degree programs based upon their musicality and musical literacy rather than on performance accomplishments. Musicial background and proficiency in an applied instrument/voice will determine placement within the Department.

N.B. The Department of Music offers a broad, general exposure to the field of music through a variety of courses to all students of the University as they pursue a liberal arts education. In addition, opportunity for instruction in an applied instrument/voice is available upon departmental approval, as well as participation in vocal and instrumental ensembles.
# A.B. (Music)

## Recommended Sequence of Program

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| **Sophomore Year** |                |                 |
| Theology Elective | 3 | Philosophy Area II | 3 |
| Foreign Language | 3 | Foreign Language | 3 |
| Mu 310—Music History I | 3 | Mu 311—Music History | 3 |
| Mu 150—Applied Music | 1 | Mu 302—Theory IV | 3 |
| Ensemble | 1 | Mu 150—Applied Music | 1 |
| Mu 301—Theory III | 3 | Ensemble | 1 |
| **Total** | 14 | **Total** | 14 |

|                |                |                 |
| **Junior Year** |                |                 |
| Theology Elective | 3 | Philosophy Area III | 3 |
| Foreign Language | 3 | Foreign Language | 3 |
| Science Elective | 3 | Science Elective | 3 |
| History I (100-level Elective) | 3 | History II (100-level Elective) | 3 |
| Mu 324—Conducting | 3 | Mu 303—Form and Analysis | 3 |
| Mu 150—Applied Music | 1 | Mu 150—Applied Music | 1 |
| **Total** | 16 | **Total** | 16 |

|                |                |                 |
| **Senior Year** |                |                 |
| Theology/Philosophy Elective | 3 | Theology/Philosophy Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Humanities Elective (Lit.) | 3 | Elective | 3 |
| Elective | 3 | Elective | 3 |
| Mu 150—Applied Music | 1 | Mu 150—Applied Music | 1 |
| **Total** | 13 | **Total** | 13 |

*Required, unless exempted through a test-out program. See page 38.
# A.B. (Music)

## Recommended Sequence of Program

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<td>Mu 324—Conducting</td>
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<td>Mu 303—Form and Analysis</td>
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*Required, unless exempted through a test-out program. See page 38.
# B.S. (Music Education) (Certification K-12)

<table>
<thead>
<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Mu 201—Theory I</td>
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<td>Mu 202—Theory II</td>
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<td>Mu 150—Applied Music</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>17</td>
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| **Sophomore Year** | | | |
| Philosophy Area II | 3 | Philosophy Area III | 3 |
| Ed 141—Human Growth & Dev. I | 3 | Ed 142—Human Growth & Dev. II | 3 |
| Ed 131—Intro. to Secondary Ed. | 3 | Mu 302—Theory IV (Comp.) | 3 |
| Mu 301—Theory III | 3 | Mu 311—History of Music II | 3 |
| Mu 310—History of Music I | 3 | Mu 122—Music in the Elem. School | 2 |
| Mu 150—Applied Music | 1 | Mu 150—Applied Music | 1 |
| Ensemble | 1 | Ensemble | 1 |
| **Total** | 17 | **Total** | 17 |

| **Junior Year** | | | |
| Science Elective | 3 | Science Elective | 3 |
| Theology Elective | 3 | Ed 214—Meth. of Teaching Reading | 3 |
| Humanities Elective (Lit.) | 3 | Ed 211—Clinical Experience | 1 |
| Mu 221—Music in Sec. School | 2 | Mu 222—Meth. & Mat. in Sec. | |
| Mu 324—Conducting I | 3 | School Music | 2 |
| Mu 328—Functional Piano | 2 | Mu 325—Conducting II | 3 |
| Mu 150—Applied Music | 1 | Mu 326—Instr. Techniques I | 2 |
| **Total** | 17 | **Total** | 18 |

| **Senior Year** | | | |
| Theology/Philosophy Elective | 3 | Ed 403—Student Teaching | 9 |
| Theology/Philosophy Elective | 3 | Mu 150—Applied Music | 1 |
| Mu 304—Arranging/Orchestration | 3 | Elective | 3 |
| Mu 327—Instr. Techniques II | 2 | Mu 150—Applied Music | 1 |
| Elective | 3 | **Total** | 13 |
| Mu 150—Applied Music | 1 | | |
| Ed 202—School Curriculum | 2 | | |
| **Total** | 17 | | |

*Required, unless exempted through a test-out program. See page 38.
THE BACHELOR OF SCIENCE (Nursing)
(For Registered Nurses)

The Department of Nursing offers a two-year upper division Bachelor of Science degree in nursing for registered nurses who are graduates of Associate Degree or Diploma Programs in nursing currently licensed to practice in the United States. This program is developed to provide a sound professional education which includes liberal education courses and courses in related disciplines (psychology, sociology, and the natural sciences). The program assists the student in viewing the individual as an integrated holistic person and provides a base for graduate education in nursing. The curriculum focuses on the nurse practitioner with clinical competence to function in a variety of health care settings.

Registered nurses enter as transfer students into the freshman, sophomore, or junior year depending upon the course requirements previously met. Registration may be on either a full-or part-time basis. All students must participate in mathematics and English composition placement examinations as part of University requirements.

Registered nurses may meet departmental and/or University requirements by:

1. Completion of the 121 credit requirements for a major in nursing:
   - Xavier University Core ........................................ 47 credits
   - Nursing Department Core ..................................... 28 credits
   - Nursing Courses ............................................... 46 credits

   (a) transfer credit for comparable courses completed with a grade of "C" or better from an accredited university or college may apply to these credits;

   (b) establishment of credit for previous education through challenge examinations may also apply; or

   (c) completion of the listed required courses.

2. The pre-baccalaureate requirements must be completed before the student, who is enrolled in the college, may begin the baccalaureate nursing courses which are sequentially designed.

3. Faculty in the baccalaureate program in nursing leading to a professional degree have a commitment to themselves, to the University, and to society to maintain the standards of the profession; therefore, the Nursing Department requires an overall grade point average of 2.0 and a grade of "C" or better in all the professional courses.
NURSING PROGRAM (CORE)

**Humanities** .................................................. 12
  English Literature ........................................... 3
  Electives ....................................................... 9

**Mathematics** .................................................. 3
  (test-Math 105)
  Elementary Statistics

**Science** ....................................................... 8
  Chemistry 101-102 ............................................ 8

**Social Science** ............................................... 12
  Psychology ...................................................... 3
  Sociology ....................................................... 3
  Psychology (G&D) .............................................. 3
  History .......................................................... 3

**Philosophy** ................................................... 6
  Intro. ............................................................ 3
  Bio-Ethics ..................................................... 3

**Theology** .................................................... 6
  Intro. ............................................................ 3
  Elective ........................................................ 3

**English Composition** ....................................... 3 (not included in core)

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NURSING CURRICULUM REQUIREMENTS

  Xavier Core .................................................... 47
  Nursing Core .................................................. 28

**Science** ...................................................... 19
  Computer Science ............................................. 1
  Anatomy & Physiology ....................................... 8
  Advanced Physiology ....................................... 3
  Nutrition ....................................................... 3
  Microbiology .................................................. 4

**Social Science** ............................................... 6
  Sociology—Upper Division ................................... 3
  Psychology (G&D) ............................................. 3

**Free Elective** ................................................ 3

  Nursing Courses .............................................. 46
    Lower Division ............................................. 16
    Upper Division ............................................ 30

Total Credits: 121-124
The nursing program, based at Edgecliff College since 1977, was the first in southwestern Ohio to develop a baccalaureate degree customized for educational needs of registered nurses who had graduated from an associate degree or diploma program elsewhere. The accredited program is distinguished by liberal arts courses such as bioethics and sociology, and by clinical experiences at sites like health centers, schools, and industry. Most of the students attend classes part-time while holding full-time nursing positions.
# B.S.N. (Nursing)

## Recommended Sequence of Program

### PRE-BACCALAUREATE NURSING

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Pl 100—Intro. to Philosophy</td>
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<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Ps 101—Gen. Psychology</td>
<td>3</td>
<td>So 101—Intro. to Sociology</td>
<td>3</td>
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<td>Ch 116—Prin. of Chemistry I</td>
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<td>History Elective</td>
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<td>Ch 117—Prin. of Chemistry I Lab</td>
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<td>Ch 118—Prin. of Chemistry II</td>
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</tr>
<tr>
<td>Bl 106—Anat. &amp; Phys. I</td>
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<td>Ch 119—Prin. of Chemistry II Lab</td>
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</tr>
<tr>
<td>Bl 303—Microbiology</td>
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<td>Bl 109—Anat. &amp; Phys. II Lab</td>
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<tr>
<td>Ps 215—Life Cycle I: Child</td>
<td>3</td>
<td>CM 305—Prin. of Normal Nutrition</td>
<td>3</td>
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<tr>
<td>English (Lit.)</td>
<td>3</td>
<td>Ps 216—Life Cycle II: Adol.-Adult</td>
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<tr>
<td>Nursing (Lower Division)</td>
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<td>CS 124—&quot;BASIC&quot; Programming</td>
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### BACCALAUREATE NURSING

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<tr>
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<tbody>
<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>Nr 300—Concepts &amp; Philosophy</td>
<td>3</td>
<td>Nr 302—Nursing Process II</td>
<td>5</td>
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<tr>
<td>Nr 301—Nursing Process I</td>
<td>5</td>
<td>Nr 304—Cult. Diver. &amp; Life Styles</td>
<td>2</td>
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<td>Bl 362—Adv. Physiology</td>
<td>3</td>
<td>Mt 146—Elementary Statistics</td>
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<td>Pl 301—Bio-Ethics</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>13</td>
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</table>

| **Senior Year**                    |           |                                     |           |
| Nr 400—Intro. Nursing Research     | 2         | Nr 040—Nursing Research Appl.       | 1         |
| Nr 401—Nursing Process III         | 5         | Nr 402—Nursing Process IV           | 5         |
| Sociology (Upper Division)         | 3         | Nr 404—Contemp. Issues in Nursing   | 2         |
| Humanities Elective                | 3         | Humanities Electives                | 6         |
| Elective                           | 3         |                                     |           |
| **Total**                          | 16        | **Total**                           | 14        |

*All students must successfully pass the Mathematics and English Composition placement tests or complete the courses Mt 105 and En 101 as part of University requirements.*
THE BACHELOR OF SCIENCE (Social Work)

The Social Work Program at Xavier is accredited by the Council on Social Work Education. The Department provides a program of instruction which contains a meaningful reservoir of traditional and contemporary social work knowledge to stimulate and challenge the intellectual capacity of the serious student.

The objectives of the program are: (a) to graduate students who have a beginning level of competency for social work practice; (b) to inculcate students with a professional value base and an appreciation for diverse social, cultural, and ethnic patterns; (c) to prepare students to be informed, participating citizens aware of social issues and problems, and active participants in working toward resolving them; (d) to prepare students for entry into graduate social work programs. While all of the objectives are important, the development of competency for a beginning level practitioner is the most significant since the attainment of the remaining three objectives will naturally flow from the achievement of the first. To be a competent practitioner one must possess a professional value base and an appreciation of diverse social, cultural, and ethnic patterns. An effective practitioner must also be an informed citizen aware of social issues and problems. If one is ready for beginning practice, one should also be at a professional developmental stage compatible with entry to graduate school.

Students majoring in social work must complete the following courses: SW 104, 167, 208, 216, 311, 315-316, 318, 325, 415-416, 417-418, 419-420, 424; CA 101; Ps 101, 215; So 101; and one course in Biology. A minimum of twelve semester hours in related divisional work as specified in Support Core Area I and II.
### B.S.W. (Social Work) Recommended Sequence of Program

#### Freshman Year

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<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
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<tr>
<td>En 101—English Composition*</td>
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<tr>
<td>Philosophy Area I</td>
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</tr>
<tr>
<td>Ps 101—General Psychology</td>
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<tr>
<td>So 101—Intro. to Sociology</td>
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<tr>
<td>Biology</td>
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#### Sophomore Year

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<tbody>
<tr>
<td><strong>Sophomore Year</strong></td>
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<td>English Literature</td>
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<td>Ps 215—Life Cycle I: Child</td>
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<td>Theology Elective</td>
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<td>Science Elective</td>
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<tr>
<td>History Elective</td>
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<tr>
<td>SW 104—Social Problems</td>
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#### Junior Year

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<tbody>
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<td><strong>Junior Year</strong></td>
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<tr>
<td>SW 208—Econ. of Society</td>
</tr>
<tr>
<td>SW 311—Research Methodology</td>
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<td>SW 315—Social Institutions</td>
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#### Senior Year

<table>
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<tbody>
<tr>
<td><strong>Senior Year</strong></td>
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<tr>
<td>SW 416—Theory/Practice II</td>
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<td>SW 417—SW Field Instruction</td>
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<td>SW 419—SW Seminar</td>
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<td>SW 424—Research Paper</td>
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<td>Support Core Area II**</td>
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</table>

*Required, unless exempted through a test-out program. See page 38.
**Area I: Minimum of two courses**
Ps 261 Social Psychology
Ps 409 Group Dynamics
So 242 Urban Sociology
So 245 Appalachian in Urban Life
So 260 Political Sociology
So 290 Criminology and Penology
SW 210 Family and Society
SW 213 Deviant Groups
SW 307 Child Welfare
SW 330 Community Organizing

**Area II: Minimum of two courses**
CJ 101 Introduction to Criminal Justice
CJ 221 Juvenile Justice in a Changing Society
CJ 260 Current Issues in Criminal Justice
CJ 268 Overview of Contemporary Corrections
Po 101 Principles of Government
Po 110 American Government
Po 140 Introduction to Public Policy
Po 233 History of Political Theory
Po 332 Introduction to Public Administration
THE BACHELOR OF ARTS (Theatre Arts)

Theatre arts aims to teach the basic theoretical and practical aspects of theatrical production, to develop techniques of creative and interpretive expression, and to provide a broad appreciation of theatre history and dramatic literature.

A major in theatre arts prepares students for a variety of careers. In addition to the obvious choices of acting, production, and direction, students have also entered the teaching professions, advertising, and promotion/public relations. Graduates from the program at Edgecliff have acquired many types of positions, including the following:

- P.M. host in a small city
- Company vice president: "Role Playing for Business"
- Movie Director
- Drama major (Master's level) at Yale University
- Brooklyn Academy (New York): receiving top reviews in theatre
- Management: Playhouse in the Park (Cincinnati)

In addition to career fields, graduate school is a very viable option for the theatre arts major. Graduate school in theatre arts is becoming increasingly important as it is beginning to take the place of the old summer stock theatres. It provides the advanced skill level people need, the extra connections, and the additional experience.

From graduate school, students will usually enter either academic or professional theatre along with ancillary work in radio/TV. The key is not stardom but working in the business.

Students majoring in theatre arts must complete 36 hours in the major, 30 of which are in required courses. These required courses include Introduction to Theatre, Acting I, Voice and Diction, Stage Movement, Stagecraft, Introduction to Lighting, Survey of Theatre History, Survey of Dramatic Literature, Play Directing, and Senior Seminar. Students will also complete three hours in dramatic literature electives and 3 hours in other theatre arts electives.

In addition, students complete a basic core curriculum of approximately 75 hours (depending on the major) in areas such as foreign language, humanities, mathematics, philosophy, science, theology, and English.

Theatre arts majors will graduate with a Bachelor of Arts (A.B.) degree in theatre arts.

Upon graduation, students in theatre arts will be equipped with a preprofessional, broadly-based background in both theoretical and practical areas. Students will be acquainted with the history of theatrical production, many forms of dramatic literature, and the technical crafts of theatre. In addition, individual creative expression and potential talent are developed.
## A.B. (Theatre Arts)  
**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th>Year</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
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<td><strong>Sem. Hrs.</strong></td>
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</tr>
<tr>
<td><strong>Freshman Year</strong></td>
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</tr>
<tr>
<td>En 101—English Composition*</td>
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<td>Foreign Language</td>
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<tr>
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<tr>
<td>Foreign Language</td>
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<td>TR 106—Acting I</td>
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<td>TR 105—Introduction to Theatre</td>
<td>3</td>
<td>Philosophy Area I</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td>TR—Elective</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<td>History I (100-level Elective)</td>
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<td>History II (100-level Elective)</td>
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<td>Mt—Elective</td>
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<td>TR 310—Dramatic Literature</td>
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<td>TR 108—Play Direction I</td>
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<tr>
<td><strong>Junior Year</strong></td>
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</tr>
<tr>
<td>TR 201—Voice and Diction</td>
<td>3</td>
<td>TR 221—Stagecraft</td>
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<tr>
<td>TR 206—Stage Movement</td>
<td>3</td>
<td>TR 222—Introduction to Lighting</td>
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<td>Humanities Elective**</td>
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<td>Humanities Elective**</td>
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<tr>
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<td>Philosophy Area III</td>
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<tr>
<td><strong>Senior Year</strong></td>
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<tr>
<td>TR 309—Survey of Theatre History</td>
<td>3</td>
<td>Theology/Philosophy Elective</td>
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<tr>
<td>TR 421—Senior Seminar</td>
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<td>TR—Electives</td>
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<td>Theology/Philosophy Elective</td>
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<td>Electives</td>
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<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See page 38.

**Dramatic literature strongly recommended.
Departments—
College of Arts and Sciences

The Arabic numeral in parentheses following course titles indicates the number of semester credit hours which the course carries.

Biology (BI)

Staff: DR. HEDDEEN, chairman; DR. CHAMBERS, SR. CHARTERS, DR. CUSICK, DR. FINKE, MR. GROSSMAN, MR. PETRI, DR. TAFURI

Laboratory Instructors: MRS. CUSICK, MRS. GIESMANN, MRS. WENDT

Assisted by: MRS. NEUMANN, MR. PECQUET, FR. PETERS, SR. SMITH

BI 106-109 and BI 120-133 may not be taken for biology major, premedical, or pre-dental requirements.

BI 110-111 and BI 112-113 are required as introduction to all 200-level courses. In exceptional cases, BI 120-133 may be considered as full or partial fulfillment. Additional prerequisites are listed with specific courses.

Lecture and laboratory sections of each course must be taken concurrently.

Lower Division Courses

BI 100, **BIOLOGY I, II.** (2) An introductory course treating the essential principles and concepts of plant and animal life: cellular, organismal, and ecological.

BI 102

BI 106 **HUMAN ANATOMY AND PHYSIOLOGY I.** (2) The major human systems emphasizing, during this semester, the skeletal, muscular, and nervous systems.

BI 107 **HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY.** (1) Human skeletal material and dissection of a representative mammal. Histology of tissues and organs with physiological exercises and demonstrations.

BI 108 **HUMAN ANATOMY AND PHYSIOLOGY II.** (2) Continuation of BI 106 stressing the circulatory, excretory digestive, endocrine, and reproductive systems.

BI 109 **HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY.** (1) Continuation of anatomical approach of BI 107 with related physiological studies and demonstrations.

BI 110 **GENERAL BIOLOGY** (2) Principles of molecular, cellular, and organismal biology, emphasizing the physiology and development of vertebrates. Preparation for most 200-level courses.

BI 111 **GENERAL BIOLOGY LABORATORY.** (2) The microscopic and gross anatomy of vertebrates, together with physiological studies using the frog and human as examples.

BI 112 **GENERAL ZOOLOGY.** (2) A continuation of BI 110. Invertebrate phyla: morphology, physiology, classification, life histories, and behavior. Topics in heredity, evolution, animal behavior, and ecology.
BI 113  **GENERAL ZOOLOGY LABORATORY.**  (2) Each major phylum is studied with extensive use of living organisms. Genetic materials, fossils, invertebrate behavior patterns, and ecological principles are examined.

BI 114  **INTRODUCTION TO THE LIFE SCIENCES.**  (3) Cells, heredity, ecology, and evolution. Plants and animal morphology and physiology, especially man. For B.S. (Elementary Education) curriculum only.

BI 115  **INTRODUCTION TO THE LIFE SCIENCES LABORATORY.**  (1) Exercises and field trips to illustrate principles of ecology, evolution, behavior, taxonomy, vertebrate organization, genetics, and cell biology.

BI 116  **NUTRITION.**  (3) The study of the science of nutrition and its practical application to life.

BI 120, BI 128  **LIFE.**  (2) Man, environment, and other living things. Cells to populations: heredity, evolution, ecology, development, reproduction, behavior, plants, microbes and human life.

BI 131, BI 133  **LIFE INVESTIGATION.**  (1) Each semester to accompany BI 100-102 or BI 120-128. Exercises, experiments, and field trips.

BI 180, BI 182  **ASCENT OF MAN.**  (2) The development of the major concepts that constitute our understanding of nature.

BI 181, BI 183  **ASCENT OF MAN LABORATORY.**  (1) Each semester to accompany BI 180-182. Exercises, experiments, and field trips.

BI 195  **DIRECTED STUDY.**  Credit to be arranged.

**Upper Division Courses**

BI 200  **GENERAL BOTANY.**  (2) The morphology, physiology, reproduction of representatives of each plant division are studied. Seed plants are stressed. Prerequisites: BI 120-133 or BI 110-133.

BI 201  **GENERAL BOTANY LABORATORY.**  (2) Living and preserved specimens of representatives of the various plant groups are studied. Demonstration of pertinent principles of plant physiology.

BI 210  **MICROBIOLOGY.**  (3) Basic study of microbes, their activities, control, role in disease and host immune responses.

BI 211  **MICROBIOLOGY LABORATORY.**  (1) Methods of isolation and culture of the bacteria, fungi, and protozoa. Techniques of classification of these organisms.

BI 212  **BACTERIOLOGY.**  (2) The morphology, classification, physiology and genetics of bacteria including the impact of these organisms on man. Prerequisites: BI 110-113.

BI 213  **BACTERIOLOGY LABORATORY.**  (2) The techniques for isolation, identification, culturing, and physiological study of bacteria.

BI 220  **CELL BIOLOGY.**  (2) A contemporary view of cell structure and function. Prerequisites: BI 110-113.

BI 222  **IMMUNOLOGY.**  (1) An introduction to the specific mechanisms by which the body reacts to foreign biological materials.


BI 231  **GENETICS LABORATORY.**  (1) Techniques of investigating fundamental genetic principles. The fruit fly as an experimental animal with studies of bacterial genetics.
Biology

BI 240 EVOLUTION. (2) Evidence for and the mechanisms of evolutionary processes. Prerequisites: BI 120-133 or BI 110-113.

BI 244 ANIMAL BEHAVIOR. (2) Relates innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisites: BI 120-133 or BI 110-113.

BI 250 ECOLOGY. (3) The relationships between organisms and their living and non-living environments. Prerequisites: BI 120-133 or BI 110-113.

BI 251 ECOLOGY LABORATORY. (1) Laboratory and field exercises to illustrate ecological principles. Local aquatic and terrestrial habitats are investigated.

BI 280 TOPICS IN BIOLOGY. (1-3) Short-term courses designed to explore biological phenomena of current interest. Prerequisites: BI 120-133 or BI 110-113 and permission of the Chairman.

BI 290 SPECIAL PROBLEMS IN BIOLOGY. (1-4) Independent study in some specialized area of biology. Prerequisite: permission of the Chairman. Laboratory fee.

BI 300 GENERAL EMBRYOLOGY. (2) A description of vertebrate development and an analysis of the mechanisms of development, using vertebrates and invertebrates as examples. Prerequisites: BI 110-113.

BI 301 GENERAL EMBRYOLOGY LABORATORY. (2) A microscopic and experimental study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis, emphasizing the vertebrates.

BI 310 COMPARATIVE ANATOMY OF THE VERTEBRATES. (2) The morphology and morphogenesis of the vertebrates and their evolution. Prerequisites: BI 300-301.

BI 311 COMPARATIVE ANATOMY OF THE VERTEBRATES LABORATORY. (2) Observation and analysis of structure and function in relation to adaptations, and to the development of dissecting skills.

BI 320 GENERAL HISTOLOGY. (2) Animal tissues; structure and function as revealed by light microscopy, electron microscopy, and histochemistry. Prerequisite: senior standing or permission of instructor.

BI 321 GENERAL HISTOLOGY LABORATORY. (2) A microscopic study of fixed materials employing routine and histochemical techniques to demonstrate cell, tissue, and organ morphology.

BI 360 VERTEBRATE PHYSIOLOGY. (2) Contraction, perception, digestion, metabolism, circulation, respiration, coordination and excretion in vertebrates. Prerequisites: BI 110-113, or permission of instructor.

BI 361 VERTEBRATE PHYSIOLOGY LABORATORY. (2) Exercises requiring careful preparation of living materials and observation of their functional responses using modern instrumentation.

BI 362 ADVANCED PHYSIOLOGY. (3) Functional process of the body, interrelationships of the systems, and some hereditary and immunological applications. For Nursing curriculum. Prerequisites: BI 106-109.

BI 370 BIOCHEMISTRY. (3) (Ch 370).

BI 393 ZOOS ARE CLASSROOMS. (1) Demonstrates how zoos may be used to teach biological principles.

BI 394 LOCAL RESOURCES FOR TEACHING LIFE SCIENCES. (2) Demonstrates how museums, nature centers, parks, and farms may be utilized to teach biology.
BI 395  DIRECTED STUDY. Credit to be arranged.

BI 398  METHODS OF BIOLOGICAL RESEARCH I. (1-2) The gathering and interpreting of experimental data from living organisms. Prerequisites: senior standing and approval of the Chairman.

BI 399  METHODS OF BIOLOGICAL RESEARCH II. (1-2) A continuation of BI 398 emphasizing experimental design and controls together with the written and oral presentation of scientific reports.

Chemistry (Ch)

Staff: DR. DUBE, chairman; DR. BARKER, DR. GARASCIA, DR. HOPKINS, DR. JOHNSON, DR. KLEINBERG, DR. O'NEILL, FR. THEPE

Lower Division Courses

Ch 102  MEN, MOLECULES, AND THE ENVIRONMENT I. (2) A terminal course for the non-science major. Chemical principles as a basis for understanding life. Applications of interest to the modern student.

Ch 103  MEN, MOLECULES, AND THE ENVIRONMENT I LABORATORY. (1) Chemical experimentation which illustrates the applications described in Ch 102. Field trips will be included.

Ch 104  MEN, MOLECULES, AND THE ENVIRONMENT II. (2) A continuation of Ch 102 including a treatment of drugs, air and water pollution, disease, and chemotherapy.

Ch 105  MEN, MOLECULES AND THE ENVIRONMENT II LABORATORY. (1) A continuation of Ch 103.

Ch 107  CHEMISTRY OF RADIOGRAPHIC FILM PROCESSING. (1) Historical development of X-ray film and darkroom accessories. The nature of processing solutions. Darkroom apparatus and techniques.

Ch 110  GENERAL CHEMISTRY I. (3) Basic principles and descriptive facts. Atomic and molecular structure, states of matter, solutions, kinetics, and equilibrium. A pre-professional course.

Ch 111  GENERAL CHEMISTRY LABORATORY. (1) Practice in the basic operations of chemical laboratory work. Experiments illustrate topics and principles covered in Ch 110. One three-hour period per week.

Ch 112  GENERAL CHEMISTRY II. (3) A continuation of Ch 110. Subjects include aqueous equilibrium, thermodynamics, electrochemistry, and the chemistry of representative elements. Prerequisite: Ch 110.

Ch 113  GENERAL CHEMISTRY II LABORATORY. (2) A continuation of Ch 111. The laboratory work includes qualitative and quantitative inorganic analysis. Two three-hour periods per week. Prerequisite: Ch 111.

Ch 115  GENERAL CHEMISTRY II LABORATORY. (1) Laboratory to accompany Ch 112 emphasizing quantitative measurements.

Ch 116  PRINCIPLES OF CHEMISTRY I. (3) A survey of General Chemistry.

Ch 117  PRINCIPLES OF CHEMISTRY I LABORATORY. (1) A laboratory course to accompany Ch 116.
Chemistry

Ch 118 PRINCIPLES OF CHEMISTRY II. (3) A continuation of Ch 116 covering Organic Chemistry and Biochemistry. Prerequisite: Ch 116.

Ch 119 PRINCIPLES OF CHEMISTRY II LABORATORY. (1) A laboratory course to accompany Ch 118.

Ch 120 PRINCIPLES OF PHYSICAL CHEMISTRY. (3) For students in the life sciences, education, and B.S. Chemical Science programs. Aspects of physical chemistry most relevant to living systems. Prerequisite: Ch 112.

Ch 124 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I. (2) A terminal course for the non-science major. Chemical and physical principles underlying photography are presented.

Ch 125 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I LABORATORY. (1) Exemplification of principles taught in Ch 124.

Ch 126 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II. (2) A continuation of Ch 124 applying the principles to black and white photographic processes.

Ch 127 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II LABORATORY. (1) A continuation of Ch 125.

Ch 140 PHARMACOLOGY I. (1) An introductory course in pharmacology which explores the legal and ethical ramifications of administering medication and the characteristics of selected drug families.

Ch 142 PHARMACOLOGY II. (1) A continuation of Pharmacology I.

Ch 151 ANALYTICAL CHEMISTRY. (1) Lecture and Laboratory course. Basic concepts. Application of wet and instrumental analytical methods to substances of clinical interest. Prerequisite: Ch 113.

Ch 190 CHEMICAL LITERATURE. (1) An introduction to the nature and use of the chemical literature, general research procedures, and technical report writing. Prerequisite: junior standing.

Upper Division Courses

Ch 202 ORGANIC CHEMISTRY. (3) A one-semester course intended for non-majors. Prerequisite: Ch 112.

Ch 203 ORGANIC CHEMISTRY LABORATORY. (1) A laboratory course to accompany Ch 202.

Ch 204 PHYSIOLOGICAL CHEMISTRY. (3) A study of Biochemistry intended for non-majors. Prerequisite: Ch 202.

Ch 205 PHYSIOLOGICAL CHEMISTRY LABORATORY. (1) A laboratory course to accompany Ch 204.

Ch 230 PHYSICAL CHEMISTRY I. (3) An introduction to theoretical chemistry with emphasis on thermodynamics and chemical equilibrium. Prerequisite: Ch 112, corequisite: Ph 108.

Ch 232 PHYSICAL CHEMISTRY II. (3) A continuation of Ch 230. Chief emphasis is on chemical kinetics and the states of matter. Prerequisite: Ch 230.

Ch 235 PHYSICAL ANALYTICAL LABORATORY I. (1) Measurement techniques applied to chemical systems. One four-hour period per week including lectures on principles of quantitative measurement. Corequisite: Ch 230.

Ch 237 PHYSICAL ANALYTICAL LABORATORY II. (2) Continuation of Ch 235. Two four-hour periods per week. Prerequisite: Ch 235, corequisite: Ch 232.
Ch 239  **PHYSICAL ANALYTICAL LABORATORY III.** (1) Continuation of Ch 237. One four-hour period per week. Prerequisite: Ch 237, corequisite: Ch 280.

Ch 240  **ORGANIC CHEMISTRY I.** (3) An introductory course treating the structure, preparation, reactions, and properties of organic compounds. Prerequisite: Ch 112.

Ch 241  **ORGANIC CHEMISTRY I LABORATORY.** (1) The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: Ch 113.

Ch 242  **ORGANIC CHEMISTRY II.** (3) A continuation of Ch 240 which extends the treatment of fundamental organic chemistry. Some special topics are included. Prerequisite: Ch 240.

Ch 243  **ORGANIC CHEMISTRY II LABORATORY.** (1) A continuation of the laboratory work of Ch 241 with increased emphasis on the reactions and synthesis of organic systems. Prerequisite: Ch 241.

Ch 250  **QUALITATIVE ORGANIC ANALYSIS.** (3) The systematic identification of pure organic compounds and of mixtures. Instrumental methods of structure determination are included. Prerequisites: Ch 242, 243.

Ch 260  **INORGANIC CHEMISTRY.** (3) Modern theories of bonding and structure. Acid-base and redox chemistry based on thermodynamic principles. Coordination compound chemistry. Prerequisite: Ch 330.

Ch 261  **INORGANIC CHEMISTRY LABORATORY.** (1) Laboratory techniques and practice in synthetic inorganic chemistry. One laboratory period per week. Corequisite: Ch 260.

Ch 280  **INSTRUMENTAL ANALYSIS.** (3) Discussion of modern analytical chemistry with emphasis on instrumentation and measurement techniques. Prerequisite: Ch 232.

Ch 281  **INSTRUMENTAL ANALYSIS LABORATORY.** (2) Practice in the use of chemical instrumentation as available. Two three-hour periods per week. Prerequisites: Ch 237, 280.

Ch 290  **PROBLEMS IN PHYSICAL CHEMISTRY.** Credit by arrangement. Conferences and direction in library and/or laboratory work in some area of physical chemistry. A charge will be made for materials used.

Ch 291  **PROBLEMS IN ORGANIC CHEMISTRY.** Description as for Ch 290, but work done is in some area of organic chemistry.

Ch 292  **PROBLEMS IN INORGANIC CHEMISTRY.** Description as for Ch 290, but work done is in some area of inorganic chemistry.

Ch 293  **PROBLEMS IN BIOCHEMISTRY.** Description as for Ch 290, but work done is in some area of biochemistry.

Ch 294  **PROBLEMS IN ANALYTICAL CHEMISTRY.** Description as for Ch 290, but work done is in some area of analytical chemistry.

Ch 295  **PROBLEMS IN RADIOCHEMISTRY.** (See Ch 290-294).

Ch 300  **CHEMISTRY SEMINAR.** (0) Required of all chemistry majors in junior and senior year.

Ch 320  **INTRODUCTION TO RADIOCHEMISTRY.** (2) Lecture on basic principles of radiochemistry and the methodology of instrumental techniques.

Ch 321  **INTRODUCTION TO RADIOCHEMISTRY LABORATORY.** (1) Laboratory course to accompany Ch 320.
Chemistry

Ch 330 PHYSICAL CHEMISTRY III. (2) An introduction to quantum chemistry, kinetic theory, and molecular structure. Prerequisite: Ch 232.

Ch 340 TOPICS IN ORGANIC CHEMISTRY. (2) An extension of fundamental organic chemistry to include more specialized topics not previously considered or extensively treated. Prerequisite: Ch 242.

Ch 370 BIOCHEMISTRY. (3) A lecture course treating the chemistry and biochemistry of carbohydrates, lipids, and proteins. Special topics are included as time permits. Prerequisite: Ch 242. (Bi 370).

Ch 395 DIRECTED STUDY. Credit to be arranged.

Ch 398 CHEMICAL RESEARCH I. (1) Directed reading and undergraduate laboratory research required of all chemistry majors in their junior or senior year. A charge will be made for materials used.

Ch 399 CHEMICAL RESEARCH II. (1) A continuation and conclusion of research begun in Ch 398. No additional charge for materials will be made. A written thesis is required as a final report of the activities of Ch 398 and 399.

Graduate Courses

Ch 500 GRADUATE CHEMISTRY SEMINAR. No credit. Critical discussion of, and progress reports on, theses and special topics by graduate students and staff members. Required each semester for all full-time graduate students.

Ch 520 RADIOCHEMISTRY. (2) Principles of radiochemistry, properties of nuclides, advanced instrumental techniques, and methodology of radiochemical applications. Prerequisite: Ch 320 or its equivalent.

Ch 521 RADIOCHEMISTRY LABORATORY. (1-2) Laboratory and instrumental technique in radiochemistry. Prerequisite: Ch 320, corequisite: Ch 520.

Ch 525 THERMODYNAMICS. (2) Classical and statistical thermodynamics and the kinetic theory of gases.

Ch 530 CHEMICAL KINETICS. (2) Subjects covered include collision and transition state theories, experimental methods, and the differential and integrated rate expressions for a variety of mechanisms.

Ch 535 THE CHEMICAL BOND. (2) An introduction to the quantum theory of valence emphasizing calculations on molecular structure.

Ch 550 ORGANIC STEREOCHEMISTRY. (2) Fundamental structural theory applied to organic compounds. Geometrical, optical, and conformational isomerism. The stereochemical factors in certain organic reactions.

Ch 555 HETEROCYCLIC ORGANIC CHEMISTRY. (2) The application of fundamental organic reactions as applied to the heterocyclic organic molecules. Two lectures per week.

Ch 570 NEWER METHODS OF SYNTHETIC ORGANIC CHEMISTRY. (2) Treatment of recently developed reagents, techniques, and processes in synthetic organic chemistry.

Ch 580 ADVANCED ORGANIC PREPARATIONS. (1-3) Lectures and/or consultation, and three hours of laboratory work per week per credit hour. A laboratory course.

Ch 590 ORGANIC REACTION MECHANISMS. (2) Theories of reaction mechanisms in organic systems and the experimental bases for these theories.

Ch 595 ORGANOMETALLIC CHEMISTRY. (2) Organometallic compounds and their chemistry. Synthesis, isolation, bonding, structure, and reactions are covered.
Ch 610  **TRANSITION METAL CHEMISTRY.** (2) The structure and reactions of coordination compounds based on an adjusted crystal field approach.

Ch 612  **ADVANCED INORGANIC CHEMISTRY.** (2) The structure, bonding, and periodic properties of the representative elements. Acid-base and redox reactions will be covered.

Ch 630  **ADVANCED BIOCHEMISTRY.** (2) A review and extension of fundamental biochemistry. Lectures supplemented by library assignments. Prerequisite: Ch 370 or its equivalent.

Ch 640  **MEDICINAL CHEMISTRY.** (2) The organic chemistry of medicinal products. Structure-activity relationships will be stressed.

Ch 660  **CHEMICAL SEPARATIONS.** (2) Methods of chemical separation and their application in chemical analysis. Emphasis to be placed on the theory, techniques, and applications of current importance.

Ch 670  **CHEMICAL MEASUREMENTS.** (2) Methods for measuring the properties of chemical systems. Modern methods, especially those based on the optical and electrical properties of systems, will be stressed.

Ch 680  **INSTRUMENTAL METHODS.** (1-2) A lecture and laboratory course to prepare the student for graduate study and research. Laboratory work consists of practice in the use of available instruments.

Ch 685  **SYNTHESIS AND CHARACTERIZATION OF CHEMICAL COMPOUNDS.** (2) Laboratory course. Synthesis of organic and inorganic materials. Demonstration of their identity and purity. Prerequisite: Ch 680 or its equivalent.

Ch 690  **SPECIAL TOPICS.** (2) Selections from the four major fields of chemistry.

Ch 694  Varied topics representative of important phases of chemistry not treated in regular course work.

Ch 695  **SPECIAL STUDY.** (1) A short-term lecture series on special topics, emphasizing continuing education for practicing scientists. May be taken as a lecture series without credit.

Ch 697  **PROBLEMS IN CHEMISTRY.** (2) Conferences and directions in library and/or laboratory work. A research paper will be written and an oral examination required.

Ch 699  **MASTER'S THESIS.** (6) Laboratory and library research under the supervision of a departmental research advisor. A final written thesis is required for those desiring the Master's degree in chemistry.

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**Classics**

*Staff:* Dr. Retzig, Chairman; Fr. Burke, Fr. Felten, Sr. Graf, Dr. Murray

**Classical Culture (CI)**

NOTE: Courses with the CI designation require no knowledge of an ancient language.

**Lower Division Courses**

Cl 130 **STUDIES IN EPIC.** (3) An inquiry into the epic genre, the epic hero, and epic values through a careful reading of several ancient and medieval epic poems.

Cl 242 **CLASSICAL TRAGEDY.** (3) A study of the tragic form, its poetry, and its use of myth through the careful reading of several plays of Aeschylus, Sophocles, Euripides, and Seneca.
Classics

Cl 246 CLASSICAL COMEDY AND SATIRE. (3) A study of ancient classical writings that may be called comic either in a narrow technical sense or in a broader sense so as to include satire. Careful reading of selected plays of Aristophanes, Plautus, Terence, and from the works of non-dramatic writers such as Catullus, Juvenal, Martial, Petronius, and the Greek Anthology.

Upper Division Courses

Cl 202 HISTORY OF ANCIENT GREECE. (3) The prehistoric period to the Hellenistic Age. (Gk 202, Hs 202).

Cl 206 HISTORY OF ANCIENT ROME. (3) The legendary beginnings. The period of the republic. The first century of the principate. (Hs 206, Lt 206).

Cl 241 GREEK LITERATURE IN TRANSLATION. (3) Masterworks of classical Greece: the epic, comedy, tragedy, lyric, the historians and philosophers.

Cl 244 LATIN LITERATURE IN TRANSLATION. (3) Great works of ancient Rome: drama, epic, didactic poetry, lyric, satire, the "novel," history.

Cl 248 CLASSICAL MYTHOLOGY. (3) The major myths reflected in ancient Greek and Latin literature. The meaning of the myths. Their influence on later ages.

Cl 331 THUCYDIDES. (3) An in-depth study of fifth-century Greece from the Athenian point of view, and a study of the method, presuppositions, and scope of the historian Thucydides. Text in translation.

Cl 333 MEN AND IDEAS IN GREECE AND ROME. (3) Cultural ideals and values which shaped and motivated the institutions and persons of Greece and Rome. The outstanding personalities who typified or actually helped shape those values.

Cl 345 INTRODUCTION TO THE CHURCH FATHERS. (3) The first centuries of Christianity as they are reflected in patristic writers. The chief Fathers. The evolution of doctrine. The unfolding of revelation. The consciousness of the indwelling spirit. (Th 345).

Cl 371 PLATO: THE REPUBLIC. (3) A careful reading of Plato's Republic in translation to uncover what he said and what he meant and its relevance to our own lives, thoughts, and values.

Cl 395 DIRECTED STUDY. Credit to be arranged.

Greek (Gk)

Lower Division Courses

Gk 101 ELEMENTARY GREEK I. (5) One semester. The ancient Greek language. Syntax, vocabulary, and morphology. The skills necessary to read ancient Greek.

Gk 102 ELEMENTARY GREEK II. (5) One semester. A continuation of Gk 101 with readings from simpler Greek texts.

Gk 151 HOMER. (3) Readings from The Iliad.

Gk 152 HOMER. (3) Selected portions of The Odyssey.

Gk 162 EURIPIDES: MEDEA. (3)

Gk 172 PLATO. (3) The Apology and other selections.

Upper Division Courses

Gk 202 HISTORY OF ANCIENT GREECE. (3) (Cl 202, Hs 202).
Gk 251  **HOMER: ILIAD.** (3) A study of the Greek epic.
Gk 252  **HOMER: ODYSSEY.** (3)
Gk 260  **SOPHOCLES.** (3) *The Oedipus Tyrannus* and *Antigone*.
Gk 262  **EURIPIDES.** (3)
Gk 331  **THUCYDIDES.** (3-4)
Gk 363  **AESCHYLUS.** (3)
Gk 371  **PLATO: THE REPUBLIC.** (3)
Gk 388  **HISTORY OF GREEK LITERATURE.** (3)
Gk 397  **SPECIAL STUDY.** Credit to be arranged. Greek poetry.
Gk 398  **SPECIAL STUDY.** Credit to be arranged. Greek prose.
Gk 399  **SENIOR COMPREHENSIVE REVIEW.** (2)

**Hebrew (He)**

**Lower Division Courses**

He 111  **ELEMENTARY BIBLICAL HEBREW I.** (3)
He 112  **ELEMENTARY BIBLICAL HEBREW II.** (3)
He 121  **INTERMEDIATE BIBLICAL HEBREW I.** (3)
He 122  **INTERMEDIATE BIBLICAL HEBREW II.** (3)

**Latin (Lt)**

**Lower Division Courses**

Lt 101  **ELEMENTARY LATIN I.** (3) The ancient Latin language. Syntax, vocabulary, and morphology. The skills necessary to read Latin.
Lt 102  **ELEMENTARY LATIN II.** (3) A continuation of Lt 101 with readings from simpler Latin texts.
Lt 115  **INTERMEDIATE LATIN.** (3) For students who have already had some Latin. Review of Latin grammar, syntax, and vocabulary with some readings.
Lt 125  **SELECTED LATIN READINGS.** (3) For students who have had six hours of college level Latin or its equivalent. Short readings from various Latin authors and genres.
Lt 128  **CICERO.** (3) The *De Senectute* and/or the *De Amicitia*.
Lt 131  **HORACE: ODES.** (3)
Lt 151  **VIRGIL: AENEID I-VI.** (3)
Lt 153  **VIRGIL: AENEID VII-XII.** (3)
Lt 161  **PLAUTUS AND TERENCE.** (3) Selected readings.

**Upper Division Courses**

Lt 206  **HISTORY OF ANCIENT ROME.** (3) (Cl 206, Hs 206).
Lt 211  **LIVY.** (3)
Lt 214  **LATIN PROSE STYLE.** (3)
Lt 221  **CICERO: PRO MILONE.** (3)
Communication Arts

Lt 222  INTRODUCTION TO A STUDY OF THE LATIN FATHERS. (3)
Lt 231  HORACE: ODES. (3)
Lt 251  VIRGIL: AENEID. (3)
Lt 261  ROMAN COMEDY. (3)
Lt 301  ROMAN ORATORY. (3)
Lt 308  CAESAR. (3)
Lt 312  TACITUS: THE ANNALES. (3)
Lt 319  CICERO: LETTERS. (3)
Lt 328  CICERO: ESSAYS. (3)
Lt 331  HORACE: SATIRES, EPISTLES. (2-3)
Lt 332  CATULLUS. (3)
Lt 335  EARLY CHRISTIAN POETS. (3)
Lt 338  MEDIAEVAL LATIN. (3)
Lt 356  ROMAN SATIRE. (3)
Lt 388  HISTORY OF LATIN LITERATURE. (3)
Lt 391  LUcretius. (3)
Lt 397  SPECIAL STUDY. Credit to be arranged. Latin poetry.
Lt 398  SPECIAL STUDY. Credit to be arranged. Latin prose.
Lt 399  SENIOR COMPREHENSIVE REVIEW. (2-3)

Communication Arts (CA)

Staff: FR. HAGERTY, chairman; MRS. DYE, FR. FLYNN, DR. KING, MR. SMITH

Assisted by: MR. ANTHONY, MR. BENKERT, MS. BOYLE, MR. deBETTENCOURT, DR. DAILY, MS. GEMELLI-CARROLL, MR. LA JEUNESSE, MS. MIMS, MS. NEAD, DR. POHLMAN, BR. PRYOR, FR. THEPE, MS. WEILAND

Basics

CA 101  ORAL COMMUNICATION. (3) Speech fundamentals as applied to interpersonal, public, and group speaking. Basic course.

CA 102  VOICE AND DICTIO.N. (3) Principles of voice production, diction, and oral reading. Recommended for students with professional aspirations. (TR 102).

CA 122  WRITTEN COMMUNICATION AND REPORTS. (3) Basic written communication. Effective business letters and reports.

CA 200  INTERPERSONAL COMMUNICATION. (3) Understanding of and classroom practice in effective communication between persons.

CA 202  ORGANIZATIONAL COMMUNICATION. (3) Employee communication policy, methods and techniques relative to public relations and marketing communications in business and industry.

CA 203  COMMUNICATION THEORY. (3) Nature, purpose, scope, and process of communication. Models, learning, language, and certain theories.

CA 204  THEORIES OF MASS MEDIA. (3) Models and processes of mass communication. Reciprocal effects of such media as TV, advertising, film, cartoons, comic strips, radio, records, etc.
Communication Arts

CA 205  **LAW OF MASS COMMUNICATION.** (3) Important legal issues which affect contemporary mass communications.

CA 206  **EFFECTIVE WRITING.** (3) Creative solutions to writer's block in a variety of practical and theoretical situations. Primarily designed for CA majors.

CA 260  **PRESENTATIONAL SPEAKING.** (3) Preparation and delivery of oral presentations for business and professions. Emphasizes persuasion, evidence, organized sequences, and uses of multimedia aids.

CA 263  **GROUP DYNAMICS.** (3) Dynamic and participative strategies in group training skills. Learn by participating and doing.

**Film—Photography**


CA 208  **PHOTOGRAPHY II.** (3) Lecture-lab experience to improve skills in creating and developing quality photographs. Prerequisite: CA 207 or approval of instructor.

CA 211  **ART OF THE FILM.** (3) Film as a modern art form, treating sound, color, light, motion, director's style, and film analysis.

CA 212  **FILM HISTORY AND DIRECTORS.** (3) Motion picture history with a focus on certain film genres and great directors.

CA 213  **MEDIA AESTHETICS.** (3) Principles of visual and aural aesthetics especially as applied to painting, music, and motion pictures.

CA 214  **FILM CRITICISM.** (3) Cultivating criteria for judging films from viewing and analysis. Leading theories studied.

CA 215  **NON-FICTION FILM.** (3) Emphasis on the development of the non-fiction film from Flaherty to "cinema of truth" and TV documentaries.

CA 216  **FILM-MAKING TECHNIQUES.** (3) Basic practice in the making of film: economic, social, technical, planning, shooting, and editing. Students will make short films.

CA 265  **HISTORY OF THE HORROR FILM.** (3) An analysis and history of the horror film.

CA 266  **HISTORY OF THE WESTERN FILM.** (3) An analysis and history of the western film.

**Radio—Television**

CA 218  **FUNDAMENTALS—RADIO-TV.** (3) History and current developments in broadcasting. Basic technical matters which dictate the shape and form of the medium.

CA 219  **AUDIO PRODUCTION AND TECHNOLOGY.** (3) Technical and theoretical basis. Projects involving WVXU-FM in learning techniques of tape editing, special effects, commercial production, and documentary production. Lab.

CA 220  **BROADCASTING ANNOUNCING.** (3) Career qualifications. Principles, preparation, and delivery of announcements, newscasts, and other projects. Lab. Prerequisites: CA 102, 219, or approval of instructor.
# Communication Arts

**CA 221 VIDEO PRODUCTION AND TECHNOLOGY.** (3) Technology and operation of video equipment, including cameras, film chain, switcher, video tape, lighting, and associated equipment. Basic video production techniques. Lab—TV Studio. Prerequisite: CA 219.

**CA 222 BROADCAST MANAGEMENT.** (3) Study of station management, organization, and operational techniques. Prerequisite: CA 218.

**CA 223 TV DIRECTING.** (3) Procedures and technology of program production by the director and crew. Role of director, control-room directing, and team cooperation. Lab—TV Studio. Prerequisite: CA 221.

**CA 224 ADVANCED TV PRODUCTION.** (3) Theories and techniques of control-room directing: staging, pacing, acting, dramatic effect, audience influence, and analysis of professional productions. Prerequisites: CA 221, 223.

**CA 225 RADIO PROGRAMMING.** (3) The practical and theoretical world of program operation at a radio station. Techniques of format establishment, public affairs programming, FCC obligations. Prerequisite: CA 218.

**CA 229 CABLE TELEVISION.** (3) Role of Cable Television in contemporary society. Planning and executing videotape programs for access programming.

**CA 232 RADIO LAB.** (1) Lab #1. Experience under station WVXU-FM operation conditions. Prerequisites: CA 218, 219, 221.

**CA 233 TELEVISION LAB.** (1) Lab #2. Experience in TV Studio for the R-TV area. Prerequisites: CA 218, 219, 221, 223.

**CA 234 BROADCAST LAB.** (1) Advanced Lab #3 in Radio-TV area. Prerequisites: CA 218, 219, 221, 232, 233.

## Print/Broadcast Journalism

**CA 237 SURVEY: JOURNALISM—PUBLIC RELATIONS.** (3) History and cultural roles of print journalism, broadcast journalism, and public relations in American society. Social, political, and regulatory effects of media.

**CA 238 NEWSWRITING.** (3) Theory and practice of news reporting and writing for metro and suburban newspapers and for business and special interest publications. Computer technology, journalism ethics, and libel. Prerequisites: CA 237 and some typing proficiency.

**CA 239 COPYEDITING.** (3) Editing news copy for accuracy and clarity, headline writing, newsphoto editing, typography, page layout, and design. Prerequisite: CA 238.

**CA 241 RADIO-TV NEWS WRITING.** (3) R-TV journalism. Genesis and development of broadcasting news. Skill development in news writing techniques using the typing lab. Prerequisite: CA 239 and some typing proficiency.


Public Relations

This area includes CA 237, 238, 239, 241, 242, 243, and the following PR courses:

CA 251 PUBLIC RELATIONS IN MODERN SOCIETY. (3) Concepts and practices of public relations. Emphasis on research, program planning, communications, and evaluation. Implications of social change and rise of consumerism. Prerequisite: CA 237 or approval of instructor.

CA 253 TECHNIQUES OF PUBLlCITY. (3) Practice skills and ethics likely to be used in a planned public relations campaign. Prerequisite: CA 251.

CA 254 PUBLIC RELATIONS MANAGEMENT. (3) Public relations as a management function in business, non-profit organizations, and government. Case studies in research and planning, fund-raising and development, staff management. Comparison of corporate and counselor public relations. Prerequisite: CA 253.

Communication—Marketing

This area comprises certain restricted courses in CA areas and courses in marketing. See CA program descriptions in CA office.

Internships

Internships are available to advanced students only, on application to and approval of chairman before registration. They require approximately ten hours of work weekly for three hours of credit.

CA 276 INTERNSHIP IN J-PR. (3)
CA 277 INTERNSHIP IN R-TV. (3)
CA 278 INTERNSHIP IN F-PH. (3)
CA 279 INTERNSHIP IN CA-MK. (3)

Workshops and Institutes

CA 281 WORKSHOP: INTRODUCTION TO PHOTOGRAPHY. (2)
CA 284 WORKSHOP: TELEVISION AND EDUCATIONAL RESOURCES. (2)
CA 285 WORKSHOP: INTERPERSONAL COMMUNICATION. (2)
CA 299 SPECIAL STUDY. Credit to be arranged. Applicable to all areas and to all students.

Educational Media

CA 290 AUDIOVISUAL COMMUNICATION. (3) (Ed 290).
CA 291 VISUAL COMMUNICATION DESIGN. (3) (Ed 291).
CA 292 ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS. (3) (Ed 292).
CA 416 THE NEWSPAPER: A TEACHING TOOL. (2) (Ed 416).
Computer Science (CS)

Staff: DR. DELANEY, director; MATHEMATICS DEPARTMENT STAFF

Students without a strong background in high school mathematics often experience difficulty in computer science courses. All courses require out of class time in the computer center.

See Management and Information Systems for additional computer courses.

CS 113 **FORTRAN PROGRAMMING.** (3) Introduction to programming in FORTRAN. Non-scientific applications stressed. Prerequisite: Secondary math proficiency, cf. page 37. (IS 368).

CS 124 **"BASIC" PROGRAMMING.** (1) (Replaces CS/Mt 125.) Introduction to the Xavier timesharing system, elements of the "BASIC" language, programming elementary problems. Prerequisite: Secondary math proficiency, cf. page 37. Students who have completed IS 100 should not take CS 124.

CS 126 **INTRODUCTION TO COMPUTING.** (3) In-depth introduction to computer science and programming. Development of algorithms. Structured programming. Corequisite: CS 124 or its equivalent.

CS 132 **COBOL PROGRAMMING.** (3) Introduction to programming in COBOL. Business applications. Prerequisites: Secondary math proficiency, cf. page 37, CS 124 or its equivalent or consent of instructor. (IS 364).

CS 134 **"BASIC" II.** (1) Continuation of CS 124. Selected additional features of the "BASIC" language. Prerequisite: CS 124.

CS 138 **NUMERICAL COMPUTATIONS.** (3) (Replaces CS/Mt 135-136.) Introduction to scientific applications of the computer. Computer arithmetic and error analysis. Computational aspects of function evaluation, non-linear equations, approximation of functions. Prerequisite: CS 124, corequisite: Mt 171. (Mt 138, IS 338).

CS 197 **SPECIAL READINGS.** Credit to be arranged.

CS 252 **ADVANCED COBOL.** (3) Substantial COBOL programming assignments. In-depth study of file management. Prerequisite: COBOL. (IS 365).

CS 255 **ASSEMBLER LANGUAGE.** (3) Hardware structure and assembler language programming. Number systems, data representation and movement, arithmetic, program control, dumps. Prerequisite: CS 124 or consent of instructor. (IS 360).

CS 256 **ASSEMBLER PROJECT.** (1-3) Additional assembler features. Substantial programming assignment in assembler language. Project report. Prerequisite: CS 255. (IS 361).

CS 265 **DISCRETE STRUCTURES.** (3) Boolean algebra, propositional logic, combinatorics, applications. Prerequisite: CS 126 or consent of instructor. (Mt 265).

CS 325 **DATA STRUCTURES.** (3) Linear lists, strings and arrays, trees and graphs, storage structures, allocation and collection, symbol tables, sorting. Prerequisite: CS 126. (IS 356).

CS 335 **OPERATING SYSTEMS.** (3) Computer architecture. Macro processing, loaders, process control, memory management, I/O processors, sharing, privacy, and protection. Prerequisites: CS 255, 325.

CS 352 **DATA PROCESSING INFORMATION SYSTEMS.** (3) See IS 352. Prerequisite: consent of instructor. (IS 352).
CS 355  **PROGRAMMING LANGUAGES.** (3) Discussion of grammars, syntax, semantics, and the functions of a compiler. Languages such as FORTRAN, COBOL, PASCAL, and SNOBOL will be used to illustrate key concepts. Prerequisites: CS 255, 325.

CS 358  **PRINCIPLES OF DATA BASE MANAGEMENT.** (3) See IS 358. Prerequisite: consent of instructor. (IS 358).

CS 365  **MICROCOMPUTERS.** (3) Microcomputer architecture, communication protocols, microcomputer machine and assembler language programming. Prerequisites: CS 265, also CS 126 or consent of instructor.

CS 390  **SENIOR PROJECT.** (2) Completion of a significant computer project. Design, verification, and documentation. Prerequisite: CS 395.

CS 395  **SEMINAR.** (2) Current topics in computer science. Prerequisite: consent of instructor.

A strong background in high school mathematics is recommended for study in Computer Science. Here, a student uses one of many terminals available at the University's on-campus facility.
Economics

Economics (Ec)

Staff: DR. KUZINA, chairman; DR. H. BRYANT, DR. DONNELLY, DR. HAILSTONES, MS. HARMON, DR. J. HAYES, DR. MARMO, DR. MASTRIANNA, MR. OLSON, DR. SCHULTZ, DR. WEINBERG, DR. ZIMMERMAN

Assisted by: MR. BUEHLER, DR. FREIBURG, MS. GUBSER, DR. HEHMAN, MR. LENT, MR. ROTHWELL, DR. WEBB

Lower Division Courses

Ec 101 MACROECONOMIC PRINCIPLES. (3) Economic activity of the economy as a whole. Topics covered include national income, employment, inflation, interest rates, and economic stability.

Ec 102 MICROECONOMIC PRINCIPLES. (3) Market forces of supply and demand in allocating the nation's resources and securing efficiency in their use. Economic behavior of consumers, firms, and resource owners. Prerequisite: Ec 101.

Upper Division Courses

Ec 200 MICROECONOMIC ANALYSIS. (3) A thorough study of consumer behavior and market demand, production, costs, the theory of the firm, and competition under different market structures. Prerequisite: Ec 102.

Ec 201 MACROECONOMIC ANALYSIS. (3) Foundations of understanding GNP, inflation, unemployment, and economic growth. Controversies in modern macro theory. Prerequisites: Ec 101, 102.

Ec 202 HISTORY OF ECONOMIC THOUGHT. (3) Ideas and theories of major contributors to economic thought. Economic schools and movements. Prerequisites: Ec 101, 102.

Ec 220 COMPARATIVE ECONOMIC SYSTEMS. (3) Study of systemic properties of alternative capitalist, socialist, traditional, and utopian economies. Prerequisites: Ec 101, 102.

Ec 222 ECONOMETRICS. (3) The construction and testing of economic models. Emphasis will be given to linear regression techniques, special problems in estimating economic relationships, and interpretation of results. Prerequisites: Ec 101, 102, Mt 146 or BA 270.

Ec 230 ECONOMICS AND PUBLIC POLICY. (3) Examination of policies to promote competition. Analysis of mergers, patents, and restrictive business practices. Study of regulated industries and public enterprise. Prerequisite: Ec 102.

Ec 235 ENERGY ECONOMICS. (3) The relationship of energy to the economy. Examination of alternatives including petroleum, coal, nuclear, solar, and conservation. Non-majors interested in energy are encouraged to take this course. Prerequisite: Ec 102.

Ec 240 ECONOMIC GEOGRAPHY. (3) Location of economic activity and factors affecting or affected by such location. Economics of natural resources. Prerequisites: Ec 101, 102.

Ec 245 URBAN ECONOMICS. (3) Interdisciplinary. Tools for problem solving. Forces leading to urbanization and differing rates of growth in urban areas. Affluence, equity, and stability are investigated. Prerequisite: Ec 102. (Po 245).
Economics

Ec 250 **MONEY AND BANKING.** (3) Principles of money, credit and banking including monetary theory and functions of a central bank, such as the Federal Reserve System. Prerequisite: Ec 101. (Fi 250).

Ec 255 **AMERICAN ECONOMIC HISTORY.** (3) Growth and development of the U.S. economy with analysis of the effects of physical environment and public policies on various economic sectors. Prerequisites: Ec 101, 102.

Ec 260 **ECONOMICS OF DEVELOPING COUNTRIES.** (3) Analysis of the main problems of developing countries, methods to generate growth and development, and the call for a New International Economic Order. Prerequisites: Ec 101, 102.

Ec 323 **INTRODUCTION TO MATHEMATICAL ECONOMICS.** (3) Synthesis of mathematical techniques and economic theory. Micro and macroeconomic theory from a mathematical perspective, linear programming, and dynamic models. Prerequisites: Ec 200, 201, Mt 150.

Ec 325 **INDUSTRIAL ORGANIZATION.** (3) Basic conditions, market structures, conduct and performance of American industry. Public policy as related to the problems of bigness and monopolization. Prerequisite: Ec 200.

Ec 335 **PUBLIC FINANCE.** (3) Role of government in the economy and an analysis of the principles of government expenditure and taxation. Prerequisite: Ec 200.

Ec 344 **ECONOMICS OF INTERNATIONAL RELATIONS.** (3) Course in international economics for non-economics majors. Prerequisites: Ec 101, 102.

Ec 345 **INTERNATIONAL ECONOMICS.** (3) Basis for trade between nations. Barriers to trade. Balance of payments. Exchange rate determination. Monetary and fiscal policies in an open economy. Prerequisite: Ec 200.

Ec 360 **CURRENT ECONOMIC PROBLEMS.** (3) Current problems: labor, monetary and fiscal policy, debt management, social security legislation and public regulation. Prerequisites: Ec 200, 201.

Ec 377 **MANAGERIAL ECONOMICS.** (3) Microeconomic analysis for decision-making within the business firm. Emphasis on forecasting, demand and cost estimation, pricing techniques. Prerequisites: Ec 200, Mt 150.

Ec 395 **SEMINAR: ECONOMICS.** (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: Ec 200, 201.

Ec 397 **TUTORIAL COURSE.** (2-3) Special reading and study for advanced students.

**Graduate Courses**


Ec 530 **MANAGERIAL ECONOMICS.** (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition, and their effect on individual firms and industries. (BA 530).

Ec 532 **BUSINESS FORECASTING.** (3) Statistical techniques for micro and macro economic forecasting using regression analysis, time series, and econometric models. (BA 532).

Education

Ec 538  MANAGEMENT AND SOCIAL REGULATION.  (3)

Ec 612  SEMINAR: COLLECTIVE BARGAINING.  (3) The historical development of collective bargaining. Problems that arise in the day-to-day administration of the labor-management agreement. Prerequisite: BA 514. (BA 612).

Education (Ed)

Staff: DR. PARTRIDGE, chairman; DR. ANDERSON, MR. BAKER, MRS. BRONSIIL, MS. BRUNING, DR. N. BRYANT, DR. DAILY, DR. FRY, DR. GAFFNEY, DR. HANNA, DR. HELMES, DR. KLEIN, DR. KRUS, DR. KRUNER, DR. LOZIER, MS. McCONNELL, DR. McCOY, MS. McDERMOTT, DR. PohlMAN, DR. PRUDEN, DR. RIORDAN, MS. ROTHSCHELD, MR. SCHEURER, DR. SCHWEIKERT, MR. SULLIVAN, DR. WUBBOLDING


Lower Division Courses

Ed 101  FIELD EXPERIENCE: ELEMENTARY.  (0) Must be taken concurrently with Ed 131.

Ed 102  FIELD EXPERIENCE: SECONDARY.  (1-6)

Ed 131  INTRODUCTION TO SECONDARY EDUCATION.  (3) The past and present role of the secondary school in American society. Legal, moral, professional responsibilities. Career opportunities. Field experiences.


Upper Division Courses

Ed 200  ADVANCED COMPOSITION FOR TEACHERS.  (3) (En 200).

Ed 201  SECONDARY METHODS.  (3) Methodology applicable to high school teaching in general. Methods best suited to each of the major content fields. Materials fee: $10.00.

Ed 202  SCHOOL CURRICULUM.  (2) The curriculum of the elementary and secondary schools. Principles and practices. Planning. UNDERGRADUATE CREDIT ONLY.

Ed 204  STUDENT TEACHING (ELEMENTARY).  (6) Laboratory experience under the supervision of a critic teacher. One semester. Ed 304 is required concurrently. UNDERGRADUATE CREDIT ONLY.

Ed 206  LINGUISTICS.  (3) (En 206).

Ed 211 **CLINICAL EXPERIENCES (SECONDARY).** (1) Training in use of diagnostic materials. Field practice in diagnosis remediation. UNDERGRADUATE CREDIT ONLY.

Ed 212 **CLINICAL EXPERIENCES (ELEMENTARY).** (1) Diagnosis, prescription, implementation and evaluation of elementary school children. Emphasis on Language Arts and Mathematics. UNDERGRADUATE CREDIT ONLY.

Ed 214 **METHODS OF TEACHING READING.** (3) Developmental process of reading. Reading as an art of communication, as a perceptual-conceptual process. Reading in the content areas. Field experiences.

Ed 215 **DEVELOPMENTAL READING IN THE SECONDARY SCHOOLS.** (3) Skill development, diagnostic techniques, readability formulas, textbook evaluation, innovative programs and materials specially designed for secondary reading. Field experiences.

Ed 216 **DIAGNOSTIC READING INSTRUCTION.** (3) Reading techniques and instruments for diagnosis of groups or individual students. Determining reading level and potential by the pre-service teacher. Programs of remediation and enrichment. Reading in content areas. Field experiences. Prerequisite: Ed 214.

Ed 218 **SOCIOLGY OF EDUCATION.** (2-3)

Ed 220 **INTRODUCTION TO SOCIAL WORK.** (3)

Ed 222 **PRINCIPLES OF SOCIAL CASE WORK.** (3)

Ed 226 **CHILDREN'S LITERATURE.** (3) Survey of literature available for elementary age children; how to use literature in the classroom. Field experiences.

Ed 227 **ADOLESCENT LITERATURE.** (3)

Ed 231 **DEVELOPMENTAL PSYCHOLOGY.** (3) (Ps 231).

Ed 232 **CHILD PSYCHOLOGY.** (2-3) (Ps 232).

Ed 233 **ADOLESCENT PSYCHOLOGY.** (2-3) (Ps 233).

Ed 245 **APPALACHIAN IN URBAN LIFE.** (3) (So 245).

Ed 249 **JOURNALISM FOR TEACHERS AND PUBLICATIONS ADVISORS.** (2-3)

Ed 261 **SOCIAL PSYCHOLOGY.** (2) (Ps 261, SW 261).

Ed 266 **CRIME AND PERSONALITY.** (3) (CJ 266, Cr 566, Ps 266).


Ed 272 **GUIDING THE EMOTIONALLY DISTURBED CHILD.** (2) Total programming for disturbed youngsters. Behavioral reports and legislations. Physical, psychological, and sociological causes.


Ed 274 **MENTAL HYGIENE.** (2) (Ps 274).

ABNORMAL PSYCHOLOGY. (2-3) (Ps 277).

AUDIOVISUAL COMMUNICATION. (3) (CA 290).

VISUAL COMMUNICATION DESIGN. (3) (CA 291).

ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS. (3) (CA 292).

INTRODUCTION TO ELEMENTARY EDUCATION. (3) Considers elementary school in school system and society and relates curriculum thereto. Must be taken concurrently with Ed 101.

ELEMENTARY METHODS AND MATERIALS: SCIENCE. (2) Curriculum. Integrated course in science. Field experiences. Prerequisite: Ed 300. Materials fee: $5.00.

ELEMENTARY METHODS AND MATERIALS: SOCIAL STUDIES. (2) Curriculum. Field experiences. Prerequisite: Ed 300.

SEMINAR: PROFESSIONAL PROBLEMS IN ELEMENTARY EDUCATION. (3) Must be taken in conjunction with Ed 204. UNDERGRADUATE CREDIT ONLY.

KINDERGARTEN METHODS AND MATERIALS I, II. (2,2) Two semesters. Pre-school children's physical, intellectual, social, and emotional development. Current research, materials, activities, and experiences appropriate for kindergarten level. Classroom observations and/or lab experiences. Individual development of materials.


ART IN THE ELEMENTARY SCHOOL. (1) Taken concurrently with Ed 314. Field experiences.

MUSIC IN THE ELEMENTARY SCHOOL. (1) Methods and materials used in elementary school instruction. Students must implement various techniques. Taken concurrently with Ed 313. Field experiences.


EARTH SCIENCE FOR TEACHERS. (2) (Elementary teachers). Content and methodology. Table-top experiments. Rocks, minerals, crystalline substances, stratified rocks, sedimentation, landforms, and processes.

TEACHING MODERN LANGUAGE IN THE ELEMENTARY SCHOOL. (3)

REFERENCE SERVICE. (3) Bibliographical and reference materials in subject fields. Training and practice in solving questions arising in reference services.


DRUG COUNSELING. (2) Drug culture; counseling the user; family counseling; crisis intervention; legal and ethical responsibilities of the counselor.
Ed 344  EDUCATION, CURRICULUM DEVELOPMENT, AND PLANNING: MENTALLY RETARDED. (2) Methods, techniques, skills and competencies, current teaching styles. Curriculum planning and implementation. Group and individual strategies.


Ed 351  MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH. (3)

Ed 352  MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: ELEMENTARY GRADES. (3)

Ed 353  MONTESSORI MATERIALS OVERVIEW. (3)

Ed 354,  ADVANCED MONTESSORI MATERIALS I, II. (6)

Ed 355

Ed 356  MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: ELEMENTARY. (3)

Ed 357  MONTESSORI ELEMENTARY INTERNSHIP. (6) Undergraduates must take this course for 6 semester hours.

Ed 359  FULL-DAY CHILD CARE METHODS. (3)

Ed 365  PSYCHOLOGY OF WOMEN. (2-3) (Ps 365).

Ed 367  PHYSIOLOGY OF EXERCISE. (2)

Ed 368  INSTRUCTOR PREPARATION: CARDIOPULMONARY RESUSCITATION. (2)

Ed 369  COACHING GOLF. (2) Area II.

Ed 370  COACHING WRESTLING. (2) Elective open to upper division students only. Area II.

Ed 371  COACHING TUMBLING AND GYMNASTICS. (3) Open to upper division students only.

Ed 372  COACHING FOOTBALL. (2) Area I.

Ed 373  COACHING BASKETBALL. (2) Area I.

Ed 374  COACHING BASEBALL. (2) Area I.

Ed 375  COACHING TRACK AND FIELD. (2) Area II.

Ed 376  THEORY OF OFFICIATING. (2) Elective open to upper division students only. Area I.

Ed 377  ADMINISTRATION OF PHYSICAL EDUCATION. (3) Principles, organization, and administration of physical education program. The intramural athletic program. UNDERGRADUATE CREDIT ONLY.

Ed 378  ADMINISTRATION OF HEALTH EDUCATION. (3) Methods and materials. Organizational techniques and the administration of the school health program. UNDERGRADUATE CREDIT ONLY.

Ed 379  PHYSICAL EDUCATION CURRICULUM. (2) Field experiences.

**Education**

Ed 381  **TESTS AND EVALUATION IN PHYSICAL EDUCATION.** (2)

Ed 382  **ELEMENTARY SCHOOL HEALTH AND HYGIENE.** (2) Field experiences.

Ed 383  **COACHING WOMEN'S TEAM SPORTS.** (2) Area II.

Ed 384  **COACHING TENNIS.** (2) Area II.

Ed 385  **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL.** (2) Field experiences.

Ed 386  **KINESIOLOGY.** (2) Prerequisites: BI 106-107, 108-109.


Ed 388  **PERSONAL AND COMMUNITY HEALTH.** (2) Personal and community health for use in teaching that subject.

Ed 389  **ADAPTIVE PHYSICAL EDUCATION.** (3) Methods, materials, and programs for the organization and administration of physical education for atypical individuals in schools and the community.

Ed 390  **WORKSHOP: INTENSIVE PHONICS.** (2)

Ed 391  **WORKSHOP: MULTI-SENSORY PERCEPTION.** (2) Other multi-sensory perception courses given during summer sessions under different titles. Materials fee: $5.00.

Ed 392  **SENSORY INTEGRATION AND MOVEMENT EDUCATION.** (2)

Ed 393  **ZOOS ARE CLASSROOMS.** (1)

Ed 394  **LOCAL RESOURCES FOR TEACHING LIFE SCIENCES.** (2)

Ed 395  **MAINSTREAMING IN THE CLASSROOM.** (2)

Ed 403  **SUPERVISED STUDENT TEACHING AND SEMINAR.** (9) Laboratory experience in secondary school teaching for one semester under a critic teacher. UNDERGRADUATE CREDIT ONLY.

Ed 410  **HANDS-ON DEVELOPMENTAL SCIENCE.** (2) (Ph 410).

Ed 411  **WORKSHOP: BASIC ELECTRONICS FOR TEACHERS.** (2) (Ph 411).

Ed 416  **TEACHING BY NEWSPAPER.** (2)

Ed 423  **WORKSHOP: TEACHING THE GIFTED.** (2)

Ed 424  **MARITAL AND FAMILY INTERACTION: WORKSHOP.** (2)

Ed 426  **THE AMERICAN FAMILY: WILL IT SURVIVE?** (2) (So 426).

Ed 427  **ART AND IMAGINATION: A WORKSHOP.** (2)


Ed 439  **SURVEY: LEARNING AND BEHAVIOR DISORDERS.** (2) Field experiences. UNDERGRADUATE CREDIT ONLY. (Ed 639).

Ed 440  **INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING: EXCEPTIONAL CHILDREN.** (2) Fee $10.00. UNDERGRADUATE CREDIT ONLY. (Ed 640).
Ed 441  METHODS AND MATERIALS: EXCEPTIONAL CHILDREN. (2) UNDERGRADUATE CREDIT ONLY. (Ed 641).

Ed 443  COUNSELING PARENTS OF EXCEPTIONAL CHILDREN. (2) UNDERGRADUATE CREDIT ONLY. (Ed 643).


Ed 445  SPEECH AND LANGUAGE DEVELOPMENT. (2) Acquisition, development and problems of speech and language. Assessment, remediation, and educational roles.

Ed 446  EDUCATION OF THE MODERATELY, SEVERELY, AND PROFOUNDLY RETARDED. (2) (Ed 746). UNDERGRADUATE CREDIT ONLY.

Ed 449  TEACHING INTERNSHIP: MSPR, LD/BD, OR EMR. (9)

Ed 454  MONTESSORI METHODS AND MATERIALS I. (3)

Ed 455  MONTESSORI METHODS AND MATERIALS II. (3)

Ed 456  MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: PRE-PRIMARY. (3)

Ed 457  MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: PRE-PRIMARY. (3)

Ed 458  MONTESSORI PRE-PRIMARY INTERNSHIP I. (3)

Ed 459  MONTESSORI PRE-PRIMARY INTERNSHIP II. (3)

Ed 460  CONSORTIUM.

Ed 463, 464  THEORIES OF PERSONALITY I, II. (2-3) Each semester. Prerequisites: 12 semester hours in psychology. (Ps 463, 464).

Ed 470  TEACHING BASIC AQUATICS. (2)

Ed 471  ADVANCED AQUATICS. (2)

Ed 472  LIFE SAVING. (2)

Ed 473  WATER SAFETY. (2)

Ed 474  COACHING RACQUET BALL, SQUASH, BADMINTON. (2) Area II.

Ed 476  COACHING SOCCER. (2) Area I.

Ed 488  HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (CJ 233, Cr. 488, Ps 488, So. 488).

Ed 498  SPECIAL STUDY. (2-6) Credit to be arranged. Special reading and directed study for advanced students.
Education

Graduate Courses

The Department of Education of the Graduate School is organized to offer the in-service teacher or school administrator opportunities for advanced professional training through individual courses or through balanced programs leading to the Master of Education degree.

Ed 501 **PHILOSOPHY OF EDUCATION.** (3) The historical development of educational philosophy and theories. Evaluation of major current philosophies.

Ed 502 **HISTORY OF AMERICAN EDUCATION.** (3)

Ed 503 **ADVANCED EDUCATIONAL PSYCHOLOGY.** (3) Major aspects of child and adolescent growth and development. The learning process and factors influencing learning.

Ed 505 **EDUCATIONAL ADMINISTRATION.** (3) The relationships of the federal government, the state, and the local government to public and private education. Major administrative functions as operable in the elementary, middle, and secondary school.

Ed 507 **EDUCATIONAL RESEARCH.** (3) Methodology of educational research. Statistics in research. Locating educational research. (Two credits.) Research project. (One credit.) A separate grade is given for each phase of the course.

Ed 510 **STATISTICAL TECHNIQUES.** (2-3) (Ps 210).

Ed 511 **ADVANCED STATISTICS.** (3) (Ps 511).

Ed 529 **BEHAVIOR THERAPY.** (3) (Ps 529).

Ed 530 **LEARNING AND MOTIVATION.** (2-3) (Ps 530).

Ed 531 **COUNSELING MINORITIES.** (2) Theory, techniques and research in counseling of minority groups, such as blacks, Southern Appalachian migrants, etc., in settings of the school and other agencies.

Ed 532 **PRINCIPLES OF GUIDANCE.** (2) Principles of guidance for the helping professions. Educational, vocational and personal-social aspects of the individual. Essentials of a guidance program. (Ps 532).

Ed 533 **COUNSELING PRINCIPLES AND TECHNIQUES.** (2) Theory of counseling. Case method. Relationships to testing and to other sources of data. Interviewing. Place and value of records. Clinical procedures. (Ps 533).

Ed 534 **ELEMENTARY SCHOOL GUIDANCE.** (2) Principles, philosophy, administration, and organization of guidance services in the elementary school setting. Role and function of the counselor.

Ed 536 **GROUP PROCESS.** (2) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work. (Ps 536).

Ed 537 **ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES.** (2) Administrative guidance tasks.

Ed 539 **INDIVIDUAL COUNSELING LABORATORY.** (2) Individual clients. Interviewing skills. Data collecting and recording. Interagency collaboration. Prerequisites: Ed 532, 533, 579. By Reservation Only.

Ed 540 **FIELD EXPERIENCE IN GUIDANCE.** (2) Supervised experiences in a school or agency setting. Practice in services. Seventy-five clock hours in-school contact with a school counselor. Prerequisite: Ed 539 or taken concurrently. By Reservation Only.
Education

Ed 541 **ELEMENTARY SCHOOL ADMINISTRATION.** (2) Criteria for an effective elementary school organization. Patterns of school organization. Administrative problems.


Ed 543 **SUPERVISION OF INSTRUCTION.** (2) Techniques of improving instruction through supervision.

Ed 544 **ELEMENTARY CURRICULUM.** (2) Aims of elementary education. Specific objectives of primary and upper-elementary divisions. Classroom techniques for realizing these objectives.

Ed 545 **SECONDARY CURRICULUM.** (2) Aims of secondary education. Specific objectives of curricular areas. Classroom techniques for realizing these objectives.

Ed 546 **MIDDLE SCHOOL CURRICULUM.** (2) Varying patterns in middle school curriculum; educating the early adolescent; age, range and characteristics of middle school pupils; problems and potential of the middle school.

Ed 547 **CURRENT PROBLEMS OF ELEMENTARY EDUCATION.** (1-2) A seminar.

Ed 548 **CURRENT PROBLEMS OF SECONDARY EDUCATION.** (1-2) A seminar.

Ed 549 **PROFESSIONAL NEGOTIATIONS IN EDUCATION.** (2)

Ed 550 **SCHOOL ADMINISTRATION: ORIENTATION.** (2) Prerequisite: Ed 505. Does not replace Ed 541, 542, or 568.

Ed 551 **FINANCIAL MANAGEMENT: NON-PUBLIC SCHOOLS.** (2)

Ed 552 **PERSONNEL ADMINISTRATION: NON-PUBLIC SCHOOLS.** (2)

Ed 553 **COMMUNITY RELATIONS: NON-PUBLIC SCHOOLS.** (2)

Ed 556 **RELIGIOUS AND MORAL FORMATION IN CHURCH RELATED SCHOOLS.** (2)

Ed 560 **PUPIL PERSONNEL ACCOUNTING AND RECORDS MANAGEMENT.** (2-3)

Ed 561 **ADMINISTRATION OF PUPIL PERSONNEL SERVICES.** (2-3) Duties and functions involved in administering pupil personnel services and in pupil accounting. Responsibilities of the director of pupil personnel. Systematized records management.

Ed 562 **SCHOOL COMMUNITY RELATIONS.** (2) Relations of school and community. Effective use of media of public relations—press, radio, television.


Ed 564 **ADMINISTRATION OF STAFF PERSONNEL.** (2) Staff personnel program: hiring, fringe benefits, salary schedules, professional negotiations. Prerequisites: Ed 505 and Ed 543 or their equivalents.


Ed 567 **SCHOOL PLANT FACILITIES.** (2) Improvement of the learning environment through proper utilization of building facilities. Sites, structures, equipment.

Ed 568 **ADMINISTRATIVE PRACTICUM.** (2) Planned field experience for students seeking administrative certification. Only students who meet University requirements may register. Registration by reservation only. Prerequisites: Ed 505, 541 or 542, 543, 544 or 545 (or 660), and 550. Administrative fee: $20.00.

Ed 569 **MIDDLE SCHOOL ADMINISTRATION.** (2) Organization and administrative aspects of middle schools. Basic characteristics of a middle school; implementation of these characteristics. Problems and solutions.

Ed 579 **PSYCHOLOGICAL AND ACHIEVEMENT TESTS.** (2-3) Group tests. Testing procedures. Rationale of intelligence, aptitude, achievement, interest, and personality tests. Selection and evaluation of group tests. (Ps 279).

Ed 580 **PSYCHOPATHOLOGY.** (2) (Ps 580).

Ed 582 **INDIVIDUAL TESTS OF INTELLIGENCE.** (4) Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence. (Ps 582).

Ed 587 **HUMANISTIC PSYCHOLOGY.** (3) (Ps 287).

Ed 590 **ADMINISTRATION OF SCHOOL ATHLETICS.** (3) Investigation and discussion of current problems and policies pertinent to administration of school athletics.

Ed 591 **LEADERSHIP IN OUTDOOR EDUCATION.** (3) Consideration is given to settings for outdoor education, school camp functions, and administration. Emphasis on group and individual camping techniques.

Ed 592 **ADMINISTRATION OF INTRAMURAL ACTIVITIES.** (3) Treatment of administrative problems, policies, and procedures involved in intramural activities as applied to school systems.

Ed 593 **PREVENTION AND CARE OF ATHLETIC INJURIES.** (3)

Ed 595 **ADMINISTRATION OF COMMUNITY RECREATION.** (3) Structure and principles as they are related to the organization and administration of school and community recreational programs.

Ed 596 **ADMINISTRATION OF PHYSICAL FITNESS PROGRAMS.** (3) Components. Organizing and administering a functional physical fitness program for sports and physical education. The individual. Physical education tests.

Ed 597 **TRENDS: PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS.** (3)


**SPECIAL WORKSHOPS, INSTITUTES, SEMINARS, INTERSESSIONS.** (1-6) Courses will be specified as to title when offered. Those listed below regularly recur. Course numbers, titles, and descriptions of courses not listed are available upon request from the Dean of the Summer Sessions.

Ed 602 **WORKSHOP: INTERNATIONAL GUIDANCE.** (2)

Ed 608 **GATB TRAINING.** (1-2) Fee: $25.00.

Ed 609 **RESOURCES COORDINATION LABORATORY IN GUIDANCE.** (2) Materials fee: $6.00.

Ed 612 **CREATIVE ARTS.** (2)

Ed 615 **WORKSHOP: GROUP DYNAMICS.** (2) Materials fee: $15.00.

Ed 618 **GROUP TESTING: THEORY AND PRACTICE.** (2) Fee: $10.00.
Ed 620  **ALCOHOL EDUCATION.** (2)

Ed 621  **WORKSHOP: SPECIAL EDUCATION.** (2)

Ed 622  **WORKSHOP: COACHING BASKETBALL.** (2)

Ed 624  **WORKSHOP: COACHING FOOTBALL.** (2)

Ed 629  **HUMANISTIC MANAGEMENT.** (2-3) (BA 645).

Ed 630,  **ISSUES: SCHOOL COUNSELORS I, II.** (2-3) Each semester.

Ed 631


Ed 634  **WORKSHOP: SCHOOL DISCIPLINE.** (2)

Ed 635  **GUIDANCE AND DISCIPLINE.** (2) Approaches to discipline. Discipline and punishment. Current theories concerning discipline are reviewed that are helpful to teachers, counselors, and administrators.

Ed 636  **CAREER DEVELOPMENT AND INFORMATION SERVICES.** (2) Vocational choice theories. Sources of occupational information. Career education models related to career development programs in various settings.

Ed 638  **WORKSHOP: LEARNING DISABILITIES.** (2)

Ed 639  **SURVEY: LEARNING AND BEHAVIOR DISORDERS.** (2) The exceptional child: developmental disabilities and handicapping conditions, etiology, classification systems, problems of adjustment.


Ed 641  **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN.** (2) Instructional models for exceptional children. Materials, practical application. Prerequisite: Ed 639.

Ed 642  **ADVANCED METHODS AND MATERIALS: EXCEPTIONAL CHILDREN.** (2) Prerequisite: Ed 640.


Ed 644  **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS.** (3) (Ps 644, BA 644).

Ed 646  **PSYCHOLOGY OF THE EXCEPTIONAL CHILD.** (3) Atypical child in regular and special classrooms. Methods of facilitating growth. Development of children who are crippled, retarded, hard of hearing, defective in vision, defective in speech, etc. (Ps 646).

Ed 647  **CLINICAL STUDIES: EMOTIONALLY DISTURBED CHILD.** (2) Treatment procedures and resources. Therapy for behavior and personality problems. The use of the school and community resources: Attitude altering. Direct treatment procedures. (Ps 647).

Ed 648  **TEACHING PRACTICUM: LEARNING AND BEHAVIOR DISORDERS.** (2-3) Sixty to ninety clock hours of supervised teaching experience with children having handicapping conditions. Placements include public and private schools, agencies, orphanages, state institutions. Final course in the program. Open only to certified teachers. By reservation only. (Ps 648).
Education

Ed 649 **TEACHING INTERNSHIP: LEARNING AND BEHAVIOR DISORDERS.** (4-6) Same as Ed 648 but more extensive and in depth. Continues for one full semester. *By reservation only.* (Ps 649).

Ed 651 **MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH.** (3) Seminar. Philosophy, historical development, contemporary critique, and current methodology. Classroom observation. Varieties of resources.

Ed 652 **CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT.** (3) The pre-schooler. Current theory and research are related to Maria Montessori’s concept of the child. (Ps 652).


Ed 655 **MONTESSORI METHODS AND MATERIALS II.** (3) Concrete to abstract learning in natural sciences, social studies, arithmetic, language arts, music, dramatic activities, art. Observation and evaluation. Requires time for materials familiarization in addition to class time.

Ed 656 **CURRICULUM DESIGN AND TEACHING STRATEGIES I.** (3) Description same as Ed 660 with emphasis on the pre-primary grades.

Ed 657 **CURRICULUM DESIGN AND TEACHING STRATEGIES II:** (3)

Ed 658 **MONTESSORI INTERNSHIP I.** (3)

Ed 659 **MONTESSORI INTERNSHIP II.** (3)

Ed 660 **CURRICULUM DESIGN AND TEACHING STRATEGIES.** (3) Elementary and secondary school curriculum as personal and social environments and constructs within a complex society. Appropriate teaching strategies. Examining personal/professional attitudes, practices, values, roles, goals. Evaluation.


Ed 663 **WORKSHOP: CURRICULUM DESIGN AND TEACHING STRATEGIES.** (6) Same as Ed 660-662 combined and given as one course in summer. Theory and practicum combined. Fee: $5.00.

Ed 665 **INSTRUCTIONAL TECHNOLOGY.** (3) Instructional management functions. Instructional development functions. Instructional system components.

Ed 666 **EDUCATIONAL MEDIA PRACTICUM.** (3-6) By arrangement. Field experience working in a media center under supervision for one or two semesters at the level of certification desired.

Ed 667 **PRACTICUM: SCHOOL SOCIAL WORK.** (2-4) *By reservation only.*

Ed 668 **INTERNSHIP: SCHOOL SOCIAL WORK.** (6) *By reservation only.*

Education

Ed 671 **READING IN THE CONTENT AREAS.** (2) Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary content reading.

Ed 672 **THEORIES IN TEACHING READING.** (2) Sociological, psychological, and educational analysis of approaches. Objectives, curriculum planning, organizational plans, and instructional materials. Interrelationship of general reading skills and study skills.

Ed 673 **SUPERVISION OF READING PROGRAMS.** (2) The role of the Reading Supervisor at all levels. Curriculum design for planning reading programs at different levels and in content areas. Evaluation of reading programs and personnel. Prerequisite: two courses in reading.

Ed 674 **LINGUISTICS: READING TEACHERS.** (2)

Ed 678 **DIAGNOSIS AND CORRECTION OF READING DISABILITIES.** (3) Factors associated with reading problems. Diagnostic tests and remedial procedures. Materials fee: $10.00. Prerequisite: Ed 214 or 215.

Ed 679 **PRACTICUM IN READING.** (3) Supervised practice in remedial and developmental reading. Laboratory fee: $15.00. Prerequisite: Ed 678. *By reservation only.*

Ed 681 **TEACHING THE TALENTED AND GIFTED.** (3)

Ed 683 **ADULT LEARNING.** (3) Needs and characteristics of adult learner. Preferred learning style, personal experiences, human resources, change.

Ed 684 **PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT.** (3) (BA 684).

Ed 685 **ORGANIZATIONAL COMMUNICATION.** (3) (BA 685).

Ed 686 **ADVANCED STUDY: PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT: I, II.** (1-3) Credit by arrangement.

Ed 695 **RESEARCH: SPECIAL AREA.** (1-2) Individual research in any special area to be specified. Prerequisite: Ed 507.

Ed 697 **TUTORIAL STUDY.** (2-6) Credit by arrangement.

Ed 698 **SPECIAL STUDY.** (2-3) Credit to be arranged. Special reading and directed study for advanced students.

Ed 699 **MASTER'S THESIS.** (6) For students desiring a program leading to the degree of Master of Arts.

Ed 714 **MOTIVATING FOR ACHIEVEMENT.** (2)

Ed 715 **ADVANCED GROUP DYNAMICS.** (2)

Ed 717 **COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS.** (1) (Ps 717).

Ed 718 **READING DYNAMICS FOR THE 80's I, II.** (1, 1)

Ed 730 **COUNSELING IN HUMAN SERVICES.** (2)

Ed 731 **COUNSELING MINORITIES.** (2)

Ed 732 **INTENSIVE COUNSELING: PRACTICUM.** (2)

Ed 744 **WORKSHOP: LANGUAGE DEVELOPMENT FOR THE EXCEPTIONAL CHILD.** (2)

Ed 745 **SPEECH AND LANGUAGE DEVELOPMENT: WORKSHOP.** (2) (Ed 445).

Ed 746 **EDUCATION OF THE MODERATELY, SEVERELY, AND PROFOUNDLY RETARDED.** (2) Psychology of MSPR. Curriculum planning. Functional skills.
Education

Ed 747  **TEACHING PRACTICUM: MSPR.** (2-3)

Ed 748  **CLASSROOM MANAGEMENT.** (2)

Ed 749  **TEACHING PRACTICUM: EMR.** (2-3)


Ed 752  **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: ELEMENTARY GRADES.** (3)

Ed 753  **MONTESSORI MATERIALS OVERVIEW.** (3)

Ed 754,  **ADVANCED MONTESSORI MATERIALS I, II.** (6)

Ed 755  **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: ELEMENTARY.** (3)

Ed 757  **MONTESSORI ELEMENTARY INTERNSHIP.** (6)

Ed 760  **COMPUTER APPLICATIONS IN EDUCATION.** (2) Computers—large, micro and time sharing. Programming ("BASIC"—PLUS and PASCAL). Administrative and instructional applications.

Ed 761  **MICROCOMPUTERS IN EDUCATION.** (3) Microcomputer terms. Types. Capabilities. Peripherals. Prerequisite: Ed 760 or knowledge of "BASIC."

Ed 765  **PROBLEMS IN EDUCATIONAL MANAGEMENT.** (2-4) Specific problems in educational administration for in-service administrators.
English (En)

Staff: DR. FONTANA, chairman; FR. BRENNAN, FR. CONNOLLY, DR. CONNORS, DR. FINKELSTEIN, DR. GETZ, MR. GLENN, MS. JOHNSON, DR. WENTERSDORF, MR. WESSLING

Assisted by: FR. BOLLMAN, MR. CAHILL, MS. CROSSLAND, MR. KORAL, DR. MURRAY, DR. SCHWEIKERT

Lower Division Courses

En 101  **ENGLISH COMPOSITION.** (3) Instruction in grammar, usage, diction, organization, and style. Frequent short writing assignments are required.

En 115  **RHETORIC.** (3) Intensive theoretical and practical study of discourse. Recommended for students who have acquired basic writing skills. Required of English majors.

En 116  **NARRATIVE.** (3) Storytelling from its pre-literate oral forms to the emergence of the inscribed and printed forms of allegory, romance, and novel. Required of English majors.

En 121  **STUDIES IN POETRY.** (3)

En 122  **STUDIES IN DRAMA.** (3) (TR 310).

En 124  **STUDIES IN FICTION.** (3)

En 125  **STUDIES IN SATIRE.** (3)

En 127  **INTRODUCTION TO LITERATURE.** (3)

En 128  **STUDIES IN BLACK LITERATURE.** (3)

En 130  **STUDIES IN EPIC.** (3) (CI 130).

En 132  **STUDIES IN WOMEN'S LITERATURE.** (3)

En 135  **STUDIES IN SHAKESPEARE.** (3) (TR 401).

Upper Division Courses

En 200  **ADVANCED COMPOSITION FOR TEACHERS.** (3) Current theories on the teaching of writing in junior and senior high school. Instruction and practice in expository writing. (Ed 200).

En 201  **EXPOSITORY AND RESEARCH WRITING.** (3)

En 203  **HISTORY OF THE ENGLISH LANGUAGE.** (3) Origins and development of the English language from c. 450 to the present. Etymology and vocabulary, syntax, semantics, and phonology.

En 206  **LINGUISTICS.** (3) Contemporary theory concerning the nature and origin of language. Phonology, morphology, syntax, and cultural linguistics. (Ed 206).

En 208  **ESSAY WRITING.** (3) The essay as literary form; instruction in the writing of autobiographical, critical, topographical, character, and persuasive essays.

En 209  **CREATIVE WRITING.** (3) Instruction and intensive practice in the writing of poetry and fiction.

En 210  **ADVANCED CREATIVE WRITING.** (3) Individualized, directed work on creative writing projects. Prerequisite: En 209 or its equivalent.

En 211  **POPULAR WRITING.** (3) Critical study of popular cultural forms and instruction in the writing of them.
English

En 221 **POETRY.**  (3) An intensive critical and historical study of British and American poetry. Required of English majors.

En 242 **CLASSICAL TRAGEDY.**  (3)

En 246 **CLASSICAL COMEDY AND SATIRE.**  (3)

En 250 **WORLD DRAMA.**  (3) Not open to students who have had En 122.

En 251 **WORLD FICTION.**  (3)

En 255 **THE COMIC SPIRIT IN WORLD LITERATURE.**  (3) Dramatic comedy from various world literatures. Reading in theory of comedy.

En 263 **SCIENCE FICTION.**  (3) A critical and generic approach to science fiction and fantasy narratives.

En 268 **LITERATURE AND PSYCHOLOGY.**  (3) English and Continental literature of several genres through the theories of psychologists.

En 269 **MYTH IN WORLD LITERATURE.**  (3)

En 270 **LITERATURE AND WAR.**  (3) The representation and interpretation of war in European and American literature.

En 275 **MARXISM AND LITERATURE.**  (3) Marxist literary theory and its application to particular texts and literary-historical problems.

En 310 **CHAUCER: THE CANTERBURY TALES.**  (3)

En 315 **EARLY ENGLISH LITERATURE.**  (3) Critical and cultural study of classic texts from *Beowulf* to Spenser.

En 326 **SHAKESPEARE: HISTORIES AND COMEDIES.**  (3) (TR 402).

En 327 **SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES.**  (3) (TR 403).

En 330 **SEVENTEENTH-CENTURY LITERATURE.**  (3) The poetry and prose of the 17th century from Donne to Milton.

En 335 **MILTON.**  (3)

En 341 **THE AGE OF EXPERIENCE.**  (3) Poetry, drama, and fiction of the late 17th and 18th century: Dryden, Pope, Swift, Defoe, Sterne.

En 350 **ROMANTIC LITERATURE.**  (3) English romantic poetry and selected non-fiction prose from 1780 to 1830.

En 362 **EARLY VICTORIAN LITERATURE.**  (3) Critical and cultural study of poetry, prose, and fiction of the Industrial Revolution.

En 363 **LATE VICTORIAN LITERATURE.**  (3) Critical and cultural study of poetry, fiction, and prose of the late 19th century in England.

En 370 **MODERN BRITISH LITERATURE.**  (3) Twentieth-century British poetry, fiction, and drama. Student should have some background in the analysis of poetry.

En 372 **MODERN DRAMA.**  (3) British, American, and European drama from Ibsen to Brecht. (TR 405).

En 373 **CONTEMPORARY DRAMA.**  (3) British, American, and European drama of the post-war period. (TR 406).

En 381 **THE AMERICAN RENAISSANCE: 1835-1865.**  (3) Textual and cultural study of the Transcendentalists and authors of the American romance.

En 382 **AMERICAN REALISM: 1865-1900.**  (3) Textual and cultural study of the realistic impulse in American poetry and fiction.
En 383 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1900-1930.** (3) American poetry, drama, and fiction in the context of the revolution in Western art.

En 386 **CONTEMPORARY AMERICAN FICTION.** (3)

En 388 **MAJOR BLACK WRITERS.** (3) American, African, and West Indian writers.

En 393 **CONTEMPORARY AMERICAN POETRY.** (3) The poetry of Oppen, Zukofsky, Olson, Spicer, Duncan, and others.

En 396 **MAJOR WOMEN WRITERS.** (3) Intensive study of important 19th and 20th century women writers.

En 398 **SENIOR SEMINAR.** (3) Topics vary; 398 or 399 required of senior English majors.

En 399 **SENIOR SEMINAR.** (3) Topics vary; 398 or 399 required of senior English majors.

En 404 **BLACK ENGLISH.** (2) Workshop.

**Graduate Courses**

En 503 **HISTORICAL LINGUISTICS.** (3) Origins and development of the English language from c. 450 to the present.

En 510 **CHAUCER’S MAJOR WORKS.** (3)

En 511 **LANGUAGE OF HUMANITIES.** (3) Critical study of topic, audience, and author-directed discourse. Intensive practice in writing. (Hu 511).

En 527 **SHAKESPEARE’S MAJOR PLAYS.** (3)

En 530 **STUDIES IN SEVENTEENTH-CENTURY LITERATURE.** (3)

En 541 **STUDIES IN EIGHTEENTH-CENTURY LITERATURE.** (3)

En 550 **STUDIES IN ROMANTICISM.** (3)

En 560 **STUDIES IN VICTORIAN AUTHORS.** (3)

En 570 **STUDIES IN MODERN BRITISH LITERATURE.** (3)

En 571 **MODERN BRITISH POETRY.** (3)

En 572 **MODERN DRAMA.** (3)

En 573 **CONTEMPORARY DRAMA.** (3)

En 581 **THE AMERICAN RENAISSANCE: 1835-1865.** (3)

En 582 **AMERICAN REALISM: 1865-1900.** (3)

En 583 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1900-1930.** (3)

En 586 **CONTEMPORARY AMERICAN FICTION.** (3)

En 593 **CONTEMPORARY AMERICAN POETRY.** (3)

En 596 **WOMEN AUTHORS.** (3) British and American women writers with an emphasis on the twentieth century.

En 699 **MASTER’S THESIS.** (6)
Geography (Gg)

The Department of Geography is administered by the Dean of the College of Continuing Education. Courses augment the student's background in economics, science, and education.

Upper Division Courses

Gg 207  WORLD GEOGRAPHY. (3) Physical and cultural regions of the world. Human systems, patterns, and diffusions. Man-environmental relationships.

Gg 220  GEOGRAPHY OF EUROPE. (3)

Gg 260  GEOGRAPHY OF LATIN AMERICA. (2-3) Topical and regional. Location patterns and regional development.

Gg 261  GEOGRAPHY OF SOUTHEAST ASIA. (3) Political, economic and social. The People: ethnic background, human activity, population number, and distribution.

Gg 395  DIRECTED STUDY. Credit to be arranged.

History (Hs)

Staff: FR. LaROCCA, chairman; FR. BENNISH, DR. FORTIN, DR. GOODMAN, DR. GRUBER, MR. McVAY, SR. McGUIRE, FR. PRICE, DR. SIMON

Assisted by: DR. DEVINE, DR. WAKSMUNDSKI

Lower Division Courses

Hs 133  WESTERN CIVILIZATION I. (3)

Hs 134  WESTERN CIVILIZATION II. (3)

Hs 135  MEDIEVAL SOCIETY AND CULTURE. (3)

Hs 136  EUROPE, 1500-1848. (3) A continuation of Hs 135.


Hs 141  IDEAS AND INSTITUTIONS I. (3) The evolution of Western ideas and prevailing assumptions and their relations to the institutions which regulate societies.

Hs 142  IDEAS AND INSTITUTIONS II. (3) A continuation of Hs 141.

Hs 143  AMERICAN THOUGHT AND CULTURE I. (3) American social and intellectual history.

Hs 144  AMERICAN THOUGHT AND CULTURE II. (3) A continuation of Hs 143.

Hs 147  CIVILIZATION ON TRIAL I. (3) Changing patterns of law, justice, and authority in the Western tradition as seen through famous trials.

Hs 148  CIVILIZATION ON TRIAL II. (3) A continuation of Hs 147.

Hs 152  LATIN AMERICA: NATIONAL PERIOD I. (3)

Hs 153  LATIN AMERICA: NATIONAL PERIOD II. (3)
History

Hs 171 \textbf{THE AMERICAN PEOPLE I.} (3) (To the Civil War.)
Hs 172 \textbf{THE AMERICAN PEOPLE II.} (3) (Since the Civil War.)
Hs 183 \textbf{TRADITIONAL JAPANESE CIVILIZATION.} (3)
Hs 184 \textbf{MODERN JAPANESE CIVILIZATION.} (3)
Hs 185 \textbf{TRADITIONAL CHINESE CIVILIZATION I.} (3)
Hs 186 \textbf{MODERN CHINESE CIVILIZATION II.} (3)

Upper Division Courses

Hs 202 \textbf{HISTORY OF ANCIENT GREECE.} (3) (Gk 202, Cl 202).
Hs 206 \textbf{HISTORY OF ANCIENT ROME.} (3) (Lt 206, Cl 206).
Hs 211 \textbf{EUROPE: CHAOS TO CIVILIZATION.} (3) The economic and feudal foundations of Western European society from the Barbarian Invasions through the return of stability and the Renaissance of the XII century.
Hs 212 \textbf{KINGS, KNIGHTS, PARLIAMENT, AND WARS.} (3) The growth of political stability, representative bodies, and modern states in Europe, XII to the XVI century.
Hs 217 \textbf{BAROQUE CATHOLICISM.} (3) An investigation of the implementation of the decrees of the Council of Trent, the spread of the Society of Jesus, and missionary activity. An examination of the church's response to the Enlightenment. (Th 371).
Hs 218 \textbf{THE ENGLISH REFORMATION.} (3) An examination of the political framework of the English Reformation and of the development of Anglican theology and worship. (Th 372).
Hs 221 \textbf{EUROPE, EIGHTEENTH CENTURY.} (3)
Hs 222 \textbf{REVOLUTIONARY EUROPE, 1769-1848.} (3)
Hs 224 \textbf{MIDDLE EAST TODAY.} (3) (Po 224).
Hs 225 \textbf{EUROPE, 1848-1918.} (3)
Hs 226 \textbf{EUROPE SINCE 1918.} (3)
Hs 227 \textbf{REVOLUTIONARY FRANCE, 1770-1800.} (3)
Hs 228 \textbf{MODERN FRANCE.} (3) France since the Enlightenment, with attention to its unique role in Western society.
Hs 232 \textbf{HISTORY OF SPAIN AND PORTUGAL.} (3) From earliest times to present. Their roles as the parent nations of Latin America.
Hs 233 \textbf{HISTORY OF POLITICAL THEORY.} (3) (Po 233).
History

Hs 235 SOVIET RUSSIA AND COMMUNISM. (3) The government, foreign policy and ideology of the Union of Soviet Socialist Republics. Interaction with the government, policies and ideals of the United States. (Po 235).


Hs 237 SEMINAR: USSR-USA CONFRONTATION. (3) (Po 237).

Hs 238 TWENTIETH-CENTURY EASTERN EUROPE. (3) Cultural and political developments since 1900. (Po 238).

Hs 240 HENRY VIII, HIS WIVES AND KIDS. (3) The political, social, and religious life in England during the English Renaissance.

Hs 241 ENGLAND, 1760-1867. (3)

Hs 242 ENGLAND SINCE 1867. (3) (Po 242).

Hs 243 MODERN IRELAND. (3)

Hs 244 OLIVER CROMWELL IS DEAD. (3) The background, the course of, and the aftermath of the English Civil War.

Hs 249 INTERNATIONAL ORGANIZATIONS. (3) (Po 249).


Hs 254 ARGENTINA, BRAZIL AND CHILE. (3)

Hs 255 THE CARIBBEAN. (3)

Hs 256 HISTORY OF TERRORISM. (3) Historical overview and analysis of contemporary terrorism. (Po 256).

Hs 266 BISMARCK AND THE UNIFICATION OF GERMANY. (3) (Po 266).

Hs 267 NAZI GERMANY. (3) (Po 267).

Hs 268 MODERN GERMANY. (3) (Po 268).

Hs 272 NATIONALISM AND COMMUNISM IN ASIA. (3)

Hs 275 SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Po 275).

Hs 279 INDIA SINCE 1857 AND PAKISTAN. (3) (Po 279).

Hs 284 JAPAN SINCE 1868. (3) (Po 284).

Hs 286 CHINA SINCE 1644. (3) (Po 286).

Hs 290 EUROPEAN INTELLECTUAL HISTORY OF EARLY MODERN EUROPE. (3) Ideas and their influence from antiquity to the Enlightenment.

Hs 291 EUROPEAN INTELLECTUAL HISTORY IN THE NINETEENTH AND TWENTIETH CENTURIES. (3) Ideas and their influence from the French Revolution to the present.
History

Hs 293 **HISTORICAL RESEARCH AND CRITICISM.** (3) Undergraduate study of the canons of historical literature as found in its more notable productions. The problem of evidence. Truth in history. Historical research and senior research paper.

Hs 295 **IMAGES OF HISTORY.** (3) Studies of selected historical topics emphasizing the utilization of film, literature, and the arts as important supplements to traditional documentary sources.

Hs 298 **ADVANCED READING.** (3) Tutorial course under staff direction.

Hs 301 **COLONIAL AMERICA, 1607-1763.** (3) England and America on the eve of colonization, the founding and development of the American colonies. Differences in religion, culture and politics.

Hs 302 **FORMATIVE YEARS OF THE REPUBLIC, 1763-1789.** (3) Thirteen colonies become a national state. Emphasis on the causes of the American Revolution and the writing of the Constitution of 1789.

Hs 303 **THE new NATION, 1785-1825.** (3) The Constitution, origins of the two-party system. Federalists and Democratic Republicans, War of 1812, and ideas which conceived the new nation.

Hs 304 **THE AGE OF JACKSON, 1825-1861.** (3) Development of sectionalism and attempted solutions, slavery problems, secession, constitutional discussion, Northern industry, the West, and unity and disunity.


Hs 311 **AGE OF BIG BUSINESS, 1885-1920.** (3) Economic surge with its social and political sequel.

Hs 312 **UNITED STATES IN THE TWENTIETH CENTURY.** (3) The United States since 1919. Social and political tensions found in America during these years.


Hs 334 **GUNS, DRUMS, AND BUGLES.** (3) A review of the American Military experience from the Colonial Minute Man up to the members of today's armed forces. The diplomatic, political, and economic dimension of America's military history will form an integral part of the presentation. (MS 334).

Hs 340 **THE PRESIDENCY.** (3) (Po 340).


Hs 343 **AMERICAN THOUGHT AND CULTURE.** (3) Satisfies social science 100-level history requirement.

Hs 348 **SOCIAL REFORM IN THE AMERICAN EXPERIENCE.** (3) Studies in Social Reform in the United States in the nineteenth and twentieth centuries.

Hs 349 **CONSTITUTIONAL AMERICA.** (3) Amendments and interpretations. Changing attitudes, new conditions of life, fresh ideas. (Po 349).
History

Hs 350  INTELLECTUAL HISTORY OF THE UNITED STATES. (3) Puritanism, political Revolutionary thought, American Renaissance, Social Darwinism, and pragmatism in American history.


Hs 358  URBAN AMERICA. (3) Emergence and importance of the city in socio-political America, particularly 1865-1915, but continuing to the 1960's. (Po 358).

Hs 359  DISCOVERY AND EXPLORATION. (3) The history of discovery and exploration from Marco Polo to Neil Armstrong.

Hs 360  AMERICAN POLITICAL PARTIES. (3) Role in government and society. Their contribution to the American system of government. Foreign party systems and American pressure groups. (Po 360).

Hs 361  HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) Colonial Congresses, the Articles of Confederation, the Constitutional Convention, and the legislative, executive, and judicial departments of the federal government. (Po 361).

Hs 366  A HISTORY OF RACIAL AND ETHNIC MINORITIES IN AMERICA. (3) The major racial and ethnic groups in America. Interrelationships. Slavery, immigration, and the assimilation of these groups into the American character.

Hs 367  IMMIGRATION. (3) The History of Immigration to the United States.

Hs 369  WOMEN IN AMERICAN HISTORY. (3) An historical perspective on women in American history.

Hs 370  RELIGION IN THE AMERICAN EXPERIENCE. (3) An examination of popular religion, evangelical preaching, and public religion in America.

Hs 371  INTER-AMERICAN RELATIONS. (3) United States interest in and association with the other American states. Interrelations. The concept of hemispheric unity. (Po 371).

Hs 374  UNITED STATES FOREIGN POLICY. (3) (Po 374).

Hs 375  HISTORICAL POLITICAL GEOGRAPHY. (3) (Po 375).

Hs 376  INTERNATIONAL LAW. (3) (Po 376).

Hs 377  INTERNATIONAL RELATIONS. (3) (Po 377).

Hs 386  CHURCH AND STATE IN AMERICA. (3)

Hs 388  OHIO HISTORY. (3)

Hs 395  SENIOR SEMINAR: UNITED STATES. (3)

Hs 397  INTERNSHIP: LOCAL. (3) (Po 397, So 397).

Hs 398  ADVANCED READING AND RESEARCH. (3)

Graduate Courses

Hs 501  HISTORICAL METHOD. (3) Ordinarily prerequisite to and required in all cases for graduate students in history. Approach to research adapted to the Master of Arts in history and to seminar work for that degree.

Hs 524  SEMINAR: THE MIDDLE EAST TODAY. (3) (Po 524).

Hs 525  SEMINAR: EUROPE. (3) Research in the history of Western Europe or of Great Britain.
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<td>SEMINAR: MODERN BRITAIN AND EUROPE</td>
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<td>SEMINAR: THE EXPANSION OF EUROPE</td>
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<td>SEMINAR: TWENTIETH-CENTURY EASTERN EUROPE</td>
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<td>SEMINAR: THE AGE OF BIG BUSINESS</td>
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Mathematics (Mt)

Staff: DR. COLLINS, chairman, MR. BRUGGEMAN, DR. DELANEY, DR. FIASPOHLER, DR. HANSEN, FR. ISENECKER, DR. KELSH, DR. LARKIN, MR. PULSKAMP, MR. TRUNNELL, MS. WALKER

Assisted by: MS. BROERING, MS. BRUGGEMAN, MS. BRUNING, DR. BUTEN, MR. BUTZ, MR. CHARRIER, MS. DORAN, FR. FERGUSON, MS. HOLLAND, MR. JOHNSON, MR. KLEINHAUS, MR. LICHT, MR. MOON, MS. OGANOWSKI, MS. PEARCE, MR. VALMASSOI, MS. WILKINS

Lower Division Courses

The Xavier University admission requirement of two units of high school mathematics is assumed for all mathematics courses. Students deficient in arithmetic and basic algebra may require remedial work before taking any college mathematics courses.

Two courses of similar content cannot be elected to fulfill a requirement in mathematics.

Descriptions of mathematics courses in computer science are found in the Computer Science section.

Mt 105 **FUNDAMENTALS OF MATHEMATICS.** (3) Rational numbers, percents, polynomials, rational expressions, integral and rational exponents. Linear equations in one and two variables, quadratic equations in one and two variables. Graphing.


Mt 124 **“BASIC” PROGRAMMING.** (1) Introduction to the Xavier time-sharing system, elements of the “BASIC” language, programming elementary programs. Prerequisite: Secondary math proficiency. Students who have completed IS 100 should not take Mt 124. (CS 124).

Mt 138 **NUMERICAL COMPUTATIONS.** (2-3) Introduction to scientific applications of the computer. Computer arithmetic and error analysis. Computational aspects of function evaluation, non-linear equations, approximation of functions. Prerequisite: Mt 124, corequisite: Mt 171. (CS 138, IS 338).

Mt 140 **GENERAL MATHEMATICS I.** (3) Patterns and problem solving in counting and calculating with integers. Operations with fractions, rationals, and irrationals. Probability and statistics. (For education majors only.)

Mt 141 **GENERAL MATHEMATICS II.** (3) Geometric figures and reasoning. Measurement and geometry with coordinates. Equations and inequalities, graphs of linear and non-linear relations. Motions in geometry. (For education majors only.)

Mt 143 **MATHEMATICS OF FINANCE.** (3) Simple and compound interest, discounting, annuities, amortization and sinking funds, stocks, bonds, insurance.

Mt 146 **ELEMENTARY STATISTICS.** (3) Description of sample data. Simple probability, theoretical distributions, normal and binomial estimation. Tests of hypotheses, correlation, regression.

Mathematics

Mt 150 ELEMENTS OF CALCULUS I. (3) Limits, the derivative, differentiation techniques. Curve-sketching, max.-min. problems. Elementary integration. Exponential and logarithmic functions. Prerequisite: Mt 149 or its equivalent.

Mt 151 ELEMENTS OF CALCULUS II. (3) Techniques of integration. Planes and systems of linear equations, surfaces, functions of several variables, partial derivatives. Max.-min. problems, Lagrange's method, multiple integrals. Exponential growth and decay. Prerequisite: Mt 150 or its equivalent.

Mt 152 ELEMENTS OF LINEAR ALGEBRA. (3) Systems of linear equations, matrices and determinants, vectors in the plane and in space. Applications.

Mt 156 GENERAL STATISTICS. (3) Descriptive statistics, basic probability distributions. Confidence intervals and hypothesis testing. Regression and correlation. Chi-square analysis, analysis of variance. Non-parametric methods. Prerequisite: Mt 150 or its equivalent.

Mt 170 CALCULUS I (4) Derivatives of elementary functions, curve-sketching, max.-min. problems. Introduction to integration, applications of integration. Polar coordinates. Prerequisite: Mt 149 or its equivalent.

Mt 171 CALCULUS II (4) Transcendental functions, methods of integration, L'Hopital's rule and indeterminate forms, improper integrals, infinite series. Prerequisite: Mt 170 or its equivalent.

Mt 172 CALCULUS III (3) Vectors in the plane and in space. Elementary operations on matrices and determinants. Lines and planes in space; parametric representations of curves in the plane and in space; surfaces and curves in space as the intersection of surfaces. Cylindrical and spherical coordinates. Functions of several variables and their geometric representation. Introduction to partial derivatives and multiple integrals. Corequisite: Mt 171 or its equivalent.

Mt 197 TUTORIAL STUDY. Credit by arrangement.

Upper Division Courses

Mt 202 INFORMAL GEOMETRY FOR ELEMENTARY TEACHERS. (3) Intuitive properties of triangles, rectangles, circles, and other figures in the plane. Properties of familiar solids, concepts of deduction, measurement and coordinate geometry. Introduction to the use of geoboards, physical models, and teaching devices. (For education majors only.)

Mt 205 TOPICS IN APPLICATIONS OF THE CALCULUS. (3) Selected applications of the calculus based on prepared modules. Prerequisite: Mt 150 or its equivalent.

Mt 206 ELEMENTARY CALCULUS FROM AN ADVANCED VIEWPOINT. (3) Topics from calculus of one variable. Primarily intended for teachers of high school calculus. Prerequisite: Mt 170 or permission of instructor.

Mt 215 DIFFERENTIAL EQUATIONS. (2-3) Ordinary differential equations. Linear and non-linear first order equations, higher order linear equations with constant and non-constant coefficients. Linear systems with constant coefficients. Series solutions and applications. Prerequisite: Mt 171.

Mt 220 ADVANCED CALCULUS I. (3) Functions of several variables, limits and continuity, partial derivatives, differentiability, exact differentials. Composite functions and the chain rule, implicit functions, Jacobians, gradient, mean value theorem. Prerequisites: Mt 171, 172.

Mt 230 ADVANCED CALCULUS II. (2-3) Multiple integrals, change of variables, line and surface integrals, Green's theorem, Stoke's theorem, divergence theorem. Prerequisite: Mt 220 or its equivalent.
Mathematics

Mt 237 **TOPICS IN LOGIC.** (3) The propositional calculus and the predicate calculus of one variable investigated as a mathematical system.

Mt 238 **TOPICS IN STATISTICS.** (3) Elementary probability, descriptive statistics, estimation and interference, correlation and regression.

Mt 239 **TOPICS IN MODERN ALGEBRA.** (3) Introduction to the study of groups, rings, and fields.

Mt 240 **LINEAR ALGEBRA.** (3) Vector spaces, bases, linear transformations, matrices and inverses, change of bases. Systems of linear equations, determinants, eigenvalues and eigenvectors, diagonalization.

Mt 241 **LINEAR ALGEBRA WITH APPLICATIONS.** (3)

Mt 250 **INTRODUCTION TO MODERN ALGEBRA.** (3) Groups, isomorphism, homomorphism, rings, ideals, fields, linear congruences, real numbers.

Mt 260 **ELEMENTARY TOPOLOGY.** (3) Topology of metric spaces, limits, continuity, compactness, and connectedness. Prerequisite: Mt 220.

Mt 265 **DISCRETE STRUCTURES.** (3) Cf. CS 265.

Mt 270 **THE ELEMENTS OF REAL ANALYSIS.** (3) The real number system, numerical sequences, and series. Elementary topology of metric spaces, continuity, connectedness, completeness, compactness. Sequences and series of functions pointwise and uniform convergence. Prerequisite: Mt 230 or its equivalent.

Mt 280 **COMPLEX VARIABLES.** (3) Complex numbers, analytic functions, complex integration, series representation of analytic functions, the calculus of residues. Prerequisite: Mt 230 or its equivalent.

Mt 302 **INTRODUCTION TO OPERATIONS RESEARCH.** (3) Deterministic and stochastic models, network analysis. Linear, non-linear and integer programming. Classical optimization, inventory theory, queuing, Markov analysis. Prerequisites: Mt 230, 331 or permission of instructor.

Mt 303 **NUMERICAL ANALYSIS.** (3) Selected topics. Prerequisites: Mt 220 and programming.

Mt 315 **SURVEY OF GEOMETRIES.** (3) Axiom systems, models and finite geometries, convexity, transformations, Euclidean constructions, and the geometry of triangles and circles. Introduction to projective and non-Euclidean geometries.

Mt 320 **MATHEMATICAL LOGIC.** (3) Axiomatic development of propositional calculus, functional complete sets of operators, axiomatic development of the first order function calculus, the existential operator, the algebra of logic.

Mt 330 **THEORY OF NUMBERS.** (3) Divisibility and primes, linear congruences, quadratic residues and reciprocity. Diophantine equations, multiplicative functions, distribution of primes.

Mt 331 **MATHEMATICAL STATISTICS I.** (3) Probability, probability distributions (discrete, continuous, univariate, multivariate), characteristics of distributions, sampling, estimation. Prerequisite: Mt 220.

Mt 332 **MATHEMATICAL STATISTICS II.** (3) Hypothesis testing, confidence methods, regression analysis, factorial designs, experimental design, sampling inspection, non-parametric methods. Prerequisite: Mt 331.

Mt 340 **APPLIED LINEAR ALGEBRA.** (3) Applications of matrix arithmetic and matrix algebra to the mathematical, physical, and social sciences. May be offered on an individual basis. Prerequisite: Mt 240.
Mt 342 **LINEAR PROGRAMMING.** (3) Derivation of simplex algorithm, dual and revised simplex, duality, sensitivity analysis, decomposition, integer programming, transportation and assignment problems, game theory. Prerequisite: Mt 240.

Mt 343 **LINEAR ANALYSIS.** (3) Normed linear space, inner product space, function spaces, Banach and Hilbert spaces, orthonormal sets and bases. Fourier expansions, linear operators and functionals, normal, unitary and Hermitian operators. Projections, spectral theory. Prerequisite: Mt 230 or its equivalent.

Mt 360 **INTRODUCTION TO THE LEBESGUE INTEGRAL.** (3) Measurable sets and measurable functions, measure spaces, Borel, Lebesgue, and Lebesgue-Stieltjes measures, Lebesgue integral, convergence theorems, $L^p$ spaces, product spaces, and Fubini's theorem. Prerequisite: Mt 230 or its equivalent.

Mt 397 **SPECIAL READING AND STUDY FOR ADVANCED STUDENTS.** Credit by arrangement.
Military Science (MS)

Staff: COL. RESLEY, chairman; MAJ. GUILFOYLE, CPT. HAMPTON, CPT. KASTER, CPT. MICHAEL.

Assisted by: MSG. STEWARD, MSG. COPAS, MSG. MEADOR, SFC. COTTRELL, MISS CLEMENCE, MR. JORDAN, MR. HUGHES

The Department of Military Science provides an opportunity for the study of subjects of recognized military and educational value to assist the student in gaining the foundations of intelligent citizenship. The primary purpose of this four-year program is to produce leaders who have the qualities and attributes essential to service as commissioned officers in the United States Army. The course of instruction is open to enrollment for both male and female students.

The complete program of instruction comprises four semesters of lower division (Basic) courses and four semesters of upper division (Advanced) courses.

The lower division (Basic) courses are taken on a voluntary basis. THERE IS NO MILITARY OBLIGATION INCURRED BY ENROLLMENT IN LOWER DIVISION COURSES (freshman and sophomore year). A military obligation is incurred by enrollment in and completion of the upper division (Advanced) courses.

The Advanced courses qualify students for a commission in the United States Army. Admission to MS 201 must be approved by the Chairman of the Military Science Department and will depend upon fulfillment of the following conditions:

1. Voluntary application on the part of the student.
2. Completion of MS 101, 102, 103, and 104. Placement will be considered for such courses completed in ROTC at other institutions, Junior ROTC, and prior service for veterans. Students may satisfy requirements for the Basic courses by completing the ROTC Basic Camp (six weeks).
3. Demonstration of potential leadership and scholarship.
4. Successful passing of a prescribed medical examination.
5. Attainment of a prescribed minimum score on the ACT or SAT (or in the absence of such scores, meeting prescribed minimum standards on a special aptitude test).
6. Signing the ROTC Advanced Course Student Contract which entitles the student to receive a $100 per month subsistence allowance during the school year, not to exceed 20 months for two years.

ROTC students, upon graduation and commissioning, will be obligated to satisfy a service agreement which may be (1) three years active duty service followed by three years in the inactive reserve; or (2) three to six months active duty for completion of the Officer Basic Training Course followed by eight years in the active reserve through the Guaranteed Reserve Forces Duty Program; or (3) Four years active duty service followed by 2 years in the inactive reserves for students accepting ROTC scholarships.

Credit for Military Science courses will be given on the same basis as for other courses offered in the university. The credit hours for these courses may be used to satisfy free electives.

Military skills training is a required portion of the curriculum.
Lower Division Courses

MS 101 INTRODUCTION TO LEADERSHIP I. (1) Pragmatic approach to the psychology of motivating people to be productive within a formal organization, to include introductory segments on the current structure of the US defense organizations. Leadership labs stress physical confidence building through mountaineering skills.

MS 102 INTRODUCTION TO LEADERSHIP II. (2) Analysis of leadership styles, behavior, group motivation, performance counseling, social power and exchange, and communications. Leadership labs include survival swimming, emergency first aid, and marksmanship training.

MS 103 ORAL COMMUNICATIONS. (3) Speech fundamentals, as applied to interpersonal, public, and group speaking. Projects in listener analysis, development of ideas, and delivery. Military skills training.

MS 104 MILITARY LEADERSHIP LAB. (0) Practical application of basic military skills. MANDATORY FOR ALL MILITARY SCIENCE STUDENTS.

MS 105 ROTC LEADERSHIP CAMP. (1-4) Six weeks of Army ROTC training at Fort Knox, Kentucky during the summer. Especially designed as a substitute for the other lower division courses. Camp graduates are eligible to enter the Army ROTC Advanced Course. Travel pay and salary provided through the Military Science Department.

Upper Division Courses

MS 201 BASIC MILITARY TACTICS. (3) Squad tactics, map readings, and methods of instruction. Military skills training.

MS 202 ADVANCED MILITARY TACTICS. (3) Small unit tactics, advanced tactics, and career development. Military skills training.

MS 203 THE MILITARY TEAM. (2) The military team, staff functions, and military law. Military skills training.

MS 204 PROFESSIONAL DEVELOPMENT. (2) Company administration, logistics, and management. Preparation for active duty.

MS 290 SPECIAL INSTRUCTION. Credit to be arranged.

MS 334 GUNS, DRUMS, AND BUGLES. (3) The American military experience. Military skills training. (Hs 334).
Air Force Reserve Officers' Training Corps (AFROTC)

Air Science at the University of Cincinnati

The Department of the Air Force at the University of Cincinnati in cooperation with Xavier University provides the opportunity for any qualified student to enroll in the Air Science (AFROTC) commissioning program at the University.

Upon graduation and successful completion of the AFROTC program, the student will be commissioned as an officer in the United States Air Force. No obligation for military service is incurred during the first two years. During the junior and senior years students receive $100.00 per month. Scholarships are available for four years, 3-1/2 years, three years, 2-1/2 years or two years. These include payment of college tuition, fees, books and $100.00 a month. Students must apply for the AFROTC program no later than spring of their sophomore year. Cadets must complete a course in English Composition and mathematical reasoning and, if on scholarship, one semester of a foreign language.

All Air Force ROTC cadets take courses in the approximate order listed below. Additional offerings are available for cooperative program students. Check with college office for amount of credit applicable toward degree.

The Air Force ROTC program is as follows:

**Air Science Courses**

100 **THE AIR FORCE TODAY** (3 Qtr., 1 cr. ea.)
Organization of the USAF; U.S. Strategic Offensive and Defensive Forces; Tactical Air Forces; leadership laboratory.

200 **THE DEVELOPMENT OF AIR POWER** (3 Qtr., 1 cr. ea.)
Air Force history from balloon ascension to space exploration; leadership laboratory.

300 **AIR FORCE MANAGEMENT AND LEADERSHIP** (3 Qtr., 3 cr. ea.)
Communicative skills; principles of management; military leadership; leadership laboratory.

400 **NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY** (3 Qtr., 3 cr. ea.)
Military Law; communications, civil-military interaction; formulation of U.S. Defense Policy; leadership laboratory.

**Flight Instruction Program**

Qualified pilot candidates receive flight training instruction and 25 hours of flying time during their senior year.

**Summer Camp**

AFROTC Field Training (four weeks). Practical Leadership Training; Physical Training and Organized Athletics; Survival Training; Aircraft and Aircrew Indoctrination, including orientation flights in various aircraft; Organization and Functions of an Air Force base; including orientation to Flight Operations, Aircraft Maintenance, Supply, Transportation, Comptroller, Communications, Medical, Food Service, Personnel Services and Security; Career Orientation; Small Arms Familiarization; and other supplemental training as individual Air Force bases may provide.

AFROTC Field Training (six weeks). Similar to the four-week field training, except that approximately two weeks are devoted to presenting selected portions of the freshman and sophomore years' work in Air Science to prepare him/her academically for entrance into
the Professional Officer Course. **Prerequisite:** The General Military Course (Basic AFROTC training) must be completed as a prerequisite for entry into the Professional Officer Course (Advanced AFROTC training). This training may be accomplished by completing either the first two years of the four-year program or the six-week AFROTC Field Training Course prior to entry into the Professional Officer Course. Students in the four-year program will be required to complete successfully the four-week AFROTC Field Training Course as a prerequisite for commissioning.

For further information, call AFROTC at the University of Cincinnati at 475-2237.

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**WHAT TO DO AFTER COLLEGE . . .**

... is a question a lot of young people in high school and college are asking. Then, even if you get the finest college degree, where can you use it meaningfully?

Perhaps the answer lies in becoming an Air Force officer through Air Force ROTC. We have many different career areas in which specialists of all kinds are needed. And as an Air Force commissioned officer you can have unequaled opportunity for leadership and management experience, plus an excellent starting salary and benefits package.

Consider Air Force ROTC as a gateway to a great way of life for you. Find out about the benefits of a four, three or two-year scholarship that pays $100 a month, tuition, book costs and lab fees. Couple that with what will be waiting after graduation, and you have the answer to what you've been looking for.

---

**AIR FORCE ROTC**

Gateway to a great way of life.
Modern Languages

Staff: DR. VEGA, chairman; DR. BUGOS, MR. EICK, FR. KENNEALY, MS. MANSOOR

Assisted by: MS. CARRILLO, MR. CHAVES, DR. FIGURE, MR. KOWZAN,
MS. McDIARMID, MR. MENCHACA TORRE, MS. O’CONNOR

A Proficiency Test is administered to those students who took modern languages in high school. The result determines the number of courses, if any, needed in order to fulfill the foreign language requirement. However, it is possible to initiate the study of a different language if the student so desires.

The successful completion of the 122 intermediate course, or its equivalent, is a prerequisite for enrollment in upper division courses.

All modern language majors must pass a senior comprehensive examination.

English as a Second Language (ESL)

As preparation for admission to degree programs in U.S. colleges and universities, the Department offers semester, as well as six-week, non-credit courses of intensive English designed for students whose native language is not English. These students take twenty to twenty five hours per week of grammar, pronunciation, civilization, and literature.

German (Gr)

Lower Division Courses

Gr 111 ELEMENTARY GERMAN I. (3) The basic skills.
Gr 112 ELEMENTARY GERMAN II. (3) Further development of basic skills. Prerequisite: Gr 111.
Gr 121 INTERMEDIATE GERMAN I. (3) Review of grammar. Reading and conversation. Prerequisite: Gr 112.
Gr 122 INTERMEDIATE GERMAN II. (3) A continuation of Gr 121. Increased reading and cultural materials. Prerequisite: Gr 121.

Upper Division Courses

Prerequisite: Gr 122 or the equivalent. The student should take any two of the following before enrolling in other upper division courses: Gr 200, 201, 203, 204.
Gr 200 ADVANCED GERMAN. (3)
Gr 201 ADVANCED READINGS IN GERMAN. (3) Literary and non-literary texts.
Gr 202 ADVANCED CONVERSATION. (3)
Gr 203 ADVANCED COMPOSITION. (3)
Gr 204 INTRODUCTION TO GERMAN LITERATURE. (3) A chronological presentation based on genres and movements. Analyses of excerpts from representative authors.
Gr 220 GERMAN CIVILIZATION. (3) German history, politics, philosophy, literature, and art from the middle of the eighteenth century to the present.
Gr 222 THE GERMAN SHORT STORY. (3) Thomas Mann, Heinrich Mann, Rilke, and Schnitzler.
Gr 260 THE CLASSICAL PERIOD. (3) "Sturm und Drang," Goethe, and Schiller.
Modem Languages

Gr 261 GERMAN ROMANTICISM. (3) Novalis, Eichendorff, Brentano, Tieck, and others.
Gr 273 CONTEMPORARY GERMAN LITERATURE. (3) Grass, Boell, Johnson, Walser, Hildesheimer, Seghers, and others.
Gr 325 TEACHING MODERN LANGUAGES. (3)
Gr 395 DIRECTED STUDY. Credit by arrangement. Individualized instruction.

French (Fr)

For students majoring in French, Fr 200, 234 or 235, 240, and 241 are required as introduction to all French upper division courses beginning at the 250-level. For non-majors, the same sequence is strongly recommended.

Lower Division Courses

Fr 100 A WALKING TOUR OF PARIS. (3) Combines lectures on the Xavier campus with a two-week study trip to Paris. Introduces students to French life and society, permits them to live among the people, and exposes them to cultural, intellectual, and culinary aspects of Paris. Conducted in English.
Fr 111 ELEMENTARY FRENCH I. (3)
Fr 112 ELEMENTARY FRENCH II. (3) Prerequisite: Fr 111.
Fr 121 INTERMEDIATE FRENCH I. (3) Prerequisite: Fr 112.
Fr 122 INTERMEDIATE FRENCH II. (3) Prerequisite: Fr 121.

Upper Division Courses

Fr 200 ADVANCED FRENCH. (3)
Fr 234 SPECIAL TOPIC (FRENCH LANGUAGE AND/OR LITERATURE). (Credit to be arranged.) Designed to permit the treatment of problems concerning French language and/or literature not considered in other course offerings. The topic will vary from semester to semester according to demand and interest. May be repeated for credit as the subject matter changes.
Fr 235 FRENCH CULTURE AND CIVILIZATION. (3)
Fr 240 SURVEY OF FRENCH LITERATURE I. (3)
Fr 241 SURVEY OF FRENCH LITERATURE II. (3)
Fr 250 STUDIES IN FRENCH LITERATURE. (3) Provides an opportunity for concentrated work in French literature of the following periods: (1) Middle Ages, (2) 16th century, (3) 17th century, (4) 18th century, (5) 19th century, (6) 20th century. Offerings vary from semester to semester. May be repeated for credit as the subject matter changes.
Fr 325 TEACHING MODERN LANGUAGES. (3)
Fr 395 DIRECTED STUDY. Credit by arrangement. Individualized instruction.

Spanish (Sp)

Lower Division Courses

Sp 111 ELEMENTARY SPANISH I. (3) The basic skills.
Modern Languages

Sp 112  **ELEMENTARY SPANISH II.**  (3) Further development of basic skills. Prerequisite: Sp 111.

Sp 121  **INTERMEDIATE SPANISH I.**  (3) Review of grammar. Reading and conservation. Prerequisite: Sp 112.

Sp 122  **INTERMEDIATE SPANISH II.**  (3) A continuation of Sp 121. Literary texts and conversation. Prerequisite: Sp 121.

Upper Division Courses

Prerequisite: Sp 122 or its equivalent. Students should take one or two of the following before enrolling in other upper division courses: Sp 200, 201, 202, 203, 204.

Sp 200  **ADVANCED SPANISH.**  (3) Required of majors.

Sp 201  **ADVANCED READINGS IN SPANISH.**  (3) Literary and non-literary texts.

Sp 202  **ADVANCED CONVERSATION.**  (3)

Sp 203  **ADVANCED COMPOSITION.**  (3)

Sp 204  **INTRODUCTION TO SPANISH LITERATURE.**  (3) A chronological presentation based on genres and movements. Analyses of excerpts from representative authors. Required of majors.

Sp 220  **SPANISH CIVILIZATION.**  (3)

Sp 224  **LATIN-AMERICAN CIVILIZATION.**  (3)

Sp 226  **HISTORY OF THE SPANISH LANGUAGE.**  (3)

Sp 232  **SPANISH AUTHORS I.**  (3) Spanish literature from the beginning to the end of the Golden Century.

Sp 233  **SPANISH AUTHORS II.**  (3) Spanish literature of the eighteenth, nineteenth, and twentieth centuries.

Sp 234  **LATIN-AMERICAN LITERATURE I.**  (3) From the beginning to the end of the Romantic Period.


Sp 250  **THE NOVEL OF THE GOLDEN CENTURY.**  (3) A study of *Lazarillo de Tormes, Don Quixote,* and other novels of the period.

Sp 251  **THE DRAMA OF THE GOLDEN CENTURY.**  (3) Representative plays by Lope de Vega, Tirso de Molina, Calderon, and Cervantes.

Sp 252  **POETRY OF THE GOLDEN CENTURY.**  (3) Poems of the Renaissance and the baroque period. The latter includes culturanism and conceptism. Main authors studied: Garcilasco, Gongora, Quevedo, and Lope de Vega.

Sp 254  **LIBRO DE BUEN AMOR AND LA CELESTINA.**  (3) A detailed study of these two masterpieces that were influential in the development of European literature. Designed for Spanish speakers primarily.

Sp 260  **SPANISH NOVELS IN TRANSLATION.**  (3) A study of ten masterpieces by Spanish novelists from the XVI to the XX century.

Sp 261  **GOLDEN CENTURY PLAYS IN TRANSLATION.**  (3) Plays of the XVI and XVII centuries. Included are works by Cervantes, Lope de Vega, Tirso, Calderon.

Sp 265  **THE HISPANIC WORLD IN TRANSLATION.**  (3) Essays, plays, poetry, and novels written by Spanish and Latin American authors. The Hispanic traditions, values, and contributions to Western civilization.
TWENTIETH-CENTURY SPANISH DRAMA I. (3) Major developments of the art up to the Spanish Civil War (1936-39). Study of plays by Benavente, Martinez Sierra, Linares Riva, Arniches, the Quinteros and Lorca.

TWENTIETH-CENTURY SPANISH DRAMA II. (3) The theater in Spain from 1940 to the present. Study of plays by Peman, Buero Vallejo, Sistre, Paso, Arrabal, and others.

THE GENERATION OF 1898. (3) A study of main works by Ganivet, Unamuno, Valle Inclan, Pio Baroja and Azorin.

MODERNISMO. (3) The development of the "modernista" period. The role of Ruben Dario.

TWENTIETH CENTURY LATIN-AMERICAN NOVEL I. (3) Contributions by Gallegos, Guiraldes, Azuela, Alegria, and other important authors.

TWENTIETH CENTURY LATIN-AMERICAN NOVEL II. (3) Study of the new narrative and magic realism. Representative novels by Borges, Carpentier, Garcia Marquez, Vargas Llosa, Rulfo, Fuentes, and others.

POST CIVIL WAR SPANISH NOVEL. (3) Main trends and a study of works by Cela, Laforet, Delibes, Aldecoa, Goystisolo, and other important authors.

TEACHING MODERN LANGUAGES. (3)

DIRECTED STUDY. Credit by arrangement. Individualized instruction.

Dr. Matias Vega and Rev. Francis C. Brennan, S.J. accepted awards for their efforts towards the successful exchange program with Javeriana Universidad, and Rev. Robert Beckman, S.J. (far right), Scholz Hall rector, accepted for Rev. Robert W. Mulligan, S.J., and for the University. Testimony to the success of the program was Rev. Jorge Hoyos, S.J. (second from the right) who is Javeriana's political science department director studying English and American customs at Xavier this year.
Philosophy (PI)

Staff: DR. BONVILLAIN, chairman; MRS. BLAIR, DR. COLELLA, FR. CURRAN (academic leave), DR. DUMONT, DR. GENDREAU, DR. JONES, MR. MARRERO, FR. OPPENHEIM, DR. SMITH, DR. SOMERVILLE, FR. TILLMAN

Assisted by: FR. BIERMAN, SR. FIAND, FR. FOLEY, FR. GAEKE, FR. PENNINGTON, MR. REUTER, FR. SCHMIDT, MR. WALTERS

Lower Division Courses

AREA I: PHILOSOPHY OF THE HUMAN BEING

PI 100 PHILOSOPHICAL PSYCHOLOGY. (3) The human being's distinctive operations, powers, freedom, nature, complex unity; the soul and its properties, man as a person and as social.

PI 103 MAN IN GREEK PHILOSOPHY. (3) The nature and destiny of man in some dialogues of Plato and selections from the De Anima of Aristotle.


PI 117 CONTEMPORARY APPROACHES TO MAN. (3) Study of the assumptions of three methodologies: behaviorism (scientific knowledge), existentialism (phenomenology of freedom), and Marxism (history of labor).

PI 118 CLASSICAL AND CONTEMPORARY VIEWS OF MAN. (3) A critical study of the human being and its powers in Plato and in John Dewey.

PI 121 PERSONALIST ANTHROPOLOGY. (3) Study of the person as a human being leading to Integral Personalism based on classical, modern, and contemporary philosophies.

PI 123 MAN, RATIONAL AND FREE. (3) Man's nature and two most distinctive traits; soul as related to body and as spiritual and immortal; man as person and as social.

PI 125 GROWTH IN KNOWLEDGE AND FREEDOM. (3) Man's development through experience, awareness of and freedom in selecting and realizing possibilities.

PI 133 PERSONS GROWING IN COMMUNITY. (3) In a context of various views of man, a study of the individual and communal dimensions of man.

PI 135 ROOTS OF FREEDOM. (3) Man's reach for freedom, the inner dynamics which give rise to his freedom; obstacles to human freedom.

PI 137 REFLECTIONS ON MAN. (3) Specific issues and various traditions on the metaphysical and phenomenological planes studied in their primary sources.

PI 139 BECOMING A HUMAN PERSON. (3) What potentialities define the human being? What activities explicate his being human? Evaluation of contemporary ways of becoming a human person.

PI 140 THE BEING OF MAN. (3) Man's place in the cosmos arrived at through a systematic analysis.

PI 163 EVOLUTIONARY MAN AND TECHNOLOGY. (3) Man in terms of his long evolution towards mastery of matter.
Philosophy

Pl 169 **NATURE, MAN, AND WOMAN.** (3) Man's nature as the root of sexuality; sexual differences; unity of man and complementarity of sexes; love and the human person.

Pl 170 **RAZON VITAL MASCUINA Y FEMENINA.** (3) Los problemas filosóficos principales en el tema del hombre; la vida, el conocimiento intelectual, la libertad. Análisis de la *Antropología Metafísica* de Julian Marias.

**Upper Division Courses**

**AREA II: METAPHYSICS**

Pl 200 **METAPHYSICS.** (3) Being and existence; change; limitation and participation of beings; principles and causes of being; categories and properties of being (unity, truth, goodness).

Pl 202 **PERSPECTIVES ON REALITY.** (3) The meaning and method of metaphysics. Different schools of metaphysics including the main themes and issues.

Pl 203 **INTEGRAL PERSONALIST METAPHYSICS.** (3) Study of reality stressing self-appropriation through analysis of triadic opportunity coming from classical, modern, and contemporary philosophy.

Pl 206 **TRANSCENDENTAL METAPHYSICS.** (3) A study of all reality in its unity and diversity with absolute being, using the transcendental method of Neo-Thomism.

Pl 217 **PARTICIPATION AND BEING.** (3) The problem of the one and the many. Platonic participation and Aristotelian potency and act.

Pl 230 **METAPHYSICS AND THE HUMAN BEING.** (3) A critical study of selected theories of reality and how they are related to the philosophical problem of the human being.

Pl 233 **METAPHYSICS, CLASSICAL AND CONTEMPORARY.** (3) A study of the dialectics of Plato and the metaphysics of Aristotle in contrast to the thinking of Heidegger.

Pl 240 **METAPHYSICS: AQUINAS AND DESCARTES.** (3) Two types of metaphysics exemplified in the *On Being and Essence* of St. Thomas and the *Meditations* of Descartes.

Pl 244 **CONTEMPORARY METAPHYSICS.** (3) Ontological issues and concepts in contemporary philosophy and the relation of these to traditional metaphysics.


**AREA III: ETHICS**

Pl 250 **PRINCIPLES OF ETHICS.** (3) The goal of human life; the first principles of right human action; conscience, virtue, law, responsibility, ethical systems.

Pl 251 **APPROACHES TO ETHICS.** (3) How various traditions distinguish right from wrong. The traditional ethics of human dignity and contemporary ethics of liberation are studied and integrated.

Pl 255 **SURVEY OF ETHICAL THEORY.** (3) Classical and contemporary theories as responses to changing social and historical circumstances.

Pl 257 **ETHICAL PRINCIPLES AND PROBLEMS.** (3) Naturalistic and deontological ethics on the basis of their ability to shed light on contemporary moral dilemmas.
Philosophy

PI 259 ETHICS FOR THE ALLIED HEALTH PROFESSIONS. (3) Examination of the moral problems faced by those in allied health fields. Presumes no previous course in philosophy.

PI 260 PERSONALIST ETHICS. (3) Philosophizing in history about person to develop an integral personalist ethic for self-appropriation through human actions for good of the whole person within triadic opportunity.

PI 271 ETHICS IN COMMUNITY. (3) In context of community, study of the moral good, agent, norm and balance, with stress on practical moral reasoning.

PI 272 DEVELOPMENTAL ETHICS. (3) Ethical theory (the main problems and systems) from the viewpoint of personal moral development.

PI 273 PERSPECTIVES ON MORAL EXPERIENCE. (3) A critical examination of major philosophical attempts at clarifying the essential problems of human ethical experience.

PI 276 ETHICS OF COMMITMENT. (3) Organizing one's life script in terms of a personal concept of integrity. Analysis of responsibility, values, and their priorities.

PI 278 ETHICS OF HAPPINESS. (3) Happiness as the ultimate end of man. Human nature, freedom and responsibility. Choice according to nature.

PI 281 ETHICS AND SOCIAL JUSTICE. (3) Study of the classical ethics with emphasis on justice in contrast to contemporary views of justice and their philosophical foundations.

AREA IV: ELECTIVES

PI 300 ORIGINS OF PHILOSOPHY. (3) A study of the revolution in thought which created philosophy and science in ancient Greece. Presocratic philosophers and Plato.

PI 301 HISTORY OF ANCIENT PHILOSOPHY. (3) Greek philosophy from its beginnings to Neoplatonism. Emphasis is on Plato and Aristotle.

PI 302 HISTORY OF MEDIEVAL PHILOSOPHY. (3) Philosophy in the Latin West from Augustine to the fourteenth century, including Islamic and Jewish philosophy as they influenced Western thought.

PI 303 HISTORY OF MODERN PHILOSOPHY. (3) Bacon and Descartes to Nietzsche. Emphasis is on Kant.

PI 305 HISTORY OF CONTEMPORARY PHILOSOPHY. (3) Survey stressing structuralist basis and diverse styles of philosophizing in the twentieth century.

PI 306 CONTEMPORARY CONTINENTAL EUROPEAN PHILOSOPHY. (3) One or more current continental philosophies; e.g., phenomenology, existentialism, Marxism, and their methods.

PI 307 CONTEMPORARY BRITISH AND AMERICAN PHILOSOPHY. (3) One or more philosophies current in Britain or America; e.g., linguistic analysis, naturalism, pragmatism, and their methods.


PI 310 LOGIC. (3) Reasoning and the forms of argument in traditional syllogistic and modern symbolic logic.

PI 311 SYMBOLIC LOGIC. (3) The elements of propositional calculus and predicate calculus; the structure of deductive systems.
Philosophy

Pl 314  THEORY OF KNOWLEDGE.  (3) Human knowledge as regards its truth and
certainty. Scepticism, relativism, idealism rationalism, empiricism, and Kantian
criticism.

Pl 316  PHILOSOPHY OF NATURE.  (3) Nature, matter, motion, space, time,  
causality, and necessity.

Pl 318  PHILOSOPHY OF GOD.  (3) Study by natural reason of the source of finite  
beings; God, His knowability, existence, nature, attributes, and operations.

Pl 320  MORAL PROBLEMS.  (3) An effort to achieve understanding and critical  
perspective in the face of moral and social problems confronting American  
society.

Pl 321  ETHICAL BUSINESS DECISIONS.  (3) Case studies of several critical issues  
in business, analyzed according to the contemporary context and ethical  
principles.

Pl 323  CONTEMPORARY MORAL ISSUES.  (3) Rights and duties of the person in  
the context of perennial and contemporary problems concerning life and health,  
sexual expression, communications, privacy, and political participation.

Pl 328  PROBLEMATIC MORALE EN FRANCE CONTEMPORAINE.  (3) Analysis  
of philosophic works, novels, plays, and essays in French language dealing with  
ethics. French used throughout the course.

Pl 329  MEDICAL ETHICS.  (3) Moral issues arising in health care delivery, including  
social policy as well as clinical problems.

Pl 330  PHILOSOPHY OF SCIENCE.  (3) Logic, epistemology, and ontology of  
science. Relation of scientific research and technology to humanistic and ethical  
concerns.

Pl 332  PHILOSOPHY OF HISTORY.  (3) History as historiography and as the  
structural principle in theological and philosophical systems. Relation of meta-
physics to politics and history.

Pl 333  PHILOSOPHY OF ART AND BEAUTY (AESTHETICS).  (3) Principal  
theories of beauty and contemplation, of art and creative intuition; of truth and  
symbolism of works of art.

Pl 334  PHILOSOPHY OF WOMAN.  (3) Application of philosophical method to a  
contemporary issue. Historical survey of philosophers' conceptions of woman.

Pl 335  CONTEMPORARY ATHIEISM.  (3) The problem of the existence of God as it  
is posed in our modern and contemporary culture.

Pl 338  PHILOSOPHICAL LINGUISTICS.  (3) Examination of the nature of language  
and of representative thinkers from the major schools of thought on the subject.

Pl 340  PHILOSOPHY OF LAW.  (3) Principal theories of law with reference to their  
roots in ethics and politics, human nature and metaphysics.

Pl 341  DIMENSIONS OF LOVE.  (3) Literary and philosophical expressions of love  
and its meaning; transcendental analysis of experiences.

Pl 350  ANALYTIC PHILOSOPHY.  (3) Contemporary British and American ordinary  
language philosophers.

Pl 352  PERSONALISM.  (3) European existentialist and American idealistic personal-
ism, liberation, conscientization, self-appropriation, personal and communal  
being. Integral Personalism as new synthesis.

Pl 355  PRINCIPLES OF POLITICAL PHILOSOPHY.  (3) Principle problems of  
political philosophy, with emphasis on philosophical and religious legitimation of  
political institutions and on the nature of justice and law.
Philosophy

PI 358  THE SOCIAL CONTRACT. (3) Examination of the political philosophies of Hobbes, Locke, and Rousseau. Emphasis on Rousseau as a critic of the social contract theories of his predecessors.

PI 365  PLATO. (3) Study in the interpretation of Plato's writings, with emphasis on the later dialogues.

PI 366  ARISTOTLE. (3) Study of the main philosophical works of Aristotle, with emphasis on his methodology and historic role.

PI 370  READINGS IN AQUINAS. (3) Selected texts. Study of the methodology, basic issues of the period; relevance to modern problems.

PI 371  AQUINAS AND BONAVENTURE. (3) Thirteenth century adventure of philosophizing Christians assimilating Jewish, Greek, and Islamic thought. Intellectual crisis of 1250-1275.

PI 372  PHILOSOPHY OF JOHN DUNS SCOTUS. (3) Examination of the key themes of the Franciscan metaphysical theologian whose tradition has long been an alternative and a rival to Thomism.

PI 375  KANT. (3) A textual study of the Critique of Pure Reason and its relation to other works of Kant.

PI 376  HEGEL. (3) Introduction to the philosophical system of Hegel from the Phenomenology of Spirit. Emphasis on Hegel's method of philosophizing.

PI 377  THE YOUNG MARX. (3) Critical examination of the development of Marx's philosophy from its roots in Hegel and Feuerbach to its initial systematic statements in 1844-46.

PI 378  THE LATER MARX. (3) Intensive critical investigation of either the Grundrisse or Capital Vol. I. Emphasis on continuation of Marx's earlier interests in these works of his "mature" period.

PI 380  WILLIAM JAMES. (3) James as a moral and religious philosopher; his Americanism, faith in progress, defense of free choice, interest in survival after death; his pragmatism and radical empiricism.

PI 381  JOSIAH ROYCE. (3) A study and critique of The Problem of Christianity by this prophet of secular Christianity.

PI 382  JOHN DEWEY. (3) Study of the main works of Dewey in their relation to American society and culture.

PI 385  MAURICE BLONDEL. (3) Blondel's L'Action; its sources and influence.

PI 386  TEILHARD DE CHARDIN. (3) Teilhard's Phenomenon of Man and Future of Man with critical evaluation of his vision.

PI 391  HEIDEGGER. (3) Study of Heidegger's great work, Being and Time, and of his later thought.

PI 394  RAHNER. (3) Study of the philosophical writings of this great Jesuit theologian.

PI 398  BIBLIOGRAPHIC RESEARCH. (1) Introduction to bibliographic research for students preparing to write major thesis. Preparation of annotated bibliography.

PI 399  MAJOR SEMINAR. (2) Research on problems related to major thesis of participants.
Physics (Ph)

Staff: DR. TOEPKER, chairman; MR. HART, DR. MILLER, FR. O'BRIEN, DR. YERIAN

Lower Division Courses

Ph 104, COLLEGE PHYSICS I, II. (3) Each semester. For pre-med, pre-dent, and others. Mechanics, heat, sound, electromagnetism, optics, and modern physics. Corequisite: Ph 105 and 107 laboratory. Prerequisite: Algebra.

Ph 105, INTRODUCTORY PHYSICS LABORATORY I, II. (1) Each semester.

Ph 107, These laboratories accompany Ph 104 or 108 and Ph 106 or 110 lectures respectively.


Ph 113, INTRODUCTION TO PHYSICAL SCIENCES. (3) For elementary education majors only.

Ph 115, INTRODUCTION TO PHYSICAL SCIENCES LABORATORY. (1)

Ph 116, OUR UNIVERSE—THE EARTH. (2) An introductory course in earth science. Corequisite: Ph 117.

Ph 117, OUR UNIVERSE—THE EARTH LABORATORY. (1) Laboratory to accompany Ph 116.


Ph 119, OUR UNIVERSE—THE SKY LABORATORY. (1) Laboratory to accompany Ph 118.

Ph 120, RADIOLOGIC PHYSICS I. (2) Energy, the structure of matter, electricity, magnetism, radioactivity, and the nature and production of X-rays. Calculations in radiology. For radiologic technology students.

Ph 121, RADIOLOGIC PHYSICS II. (2) A continuation of Ph 120.

Ph 122, ENERGY SOURCES AND USES. (2) An introductory course that surveys various forms of energy and studies practical, economical applications.

Ph 123, ENERGY LABORATORY. (1) Accompanies Ph 122.

Ph 137, HOLOGRAPHY—LASER PHOTOGRAPHY. (3)


Ph 161, DIGITAL COMPUTERS IN PHYSICS. (1) The use of the FORTRAN computer language and the digital IBM 360 computer.

Ph 162, ANALOG COMPUTERS IN PHYSICS I, II. (1) Each semester. The use of the analog computer in simulation of problems involving mechanical and electrical vibrations, probability, and biorhythms.
Physics

Upper Division Courses

Ph 204  ANALOG COMPUTER WORKSHOP. (3)

Ph 205  TIME-SHARING COMPUTER WORKSHOP. (3)

Ph 206,  ADVANCED STUDY OF BASIC PHYSICS I, II. (3) Each semester. The broad implications of the fundamental principles of general physics. Prerequisite: General Physics or its equivalent.


Ph 243,  ELECTRONS LABORATORY I, II. (1) Each semester. Laboratory to accompany Ph 242, 244 respectively.

Ph 350  THEORETICAL MECHANICS I. (3) Statics, equilibrium of rigid bodies, analysis of structure, friction, machines.

Ph 351  THEORETICAL MECHANICS II. (3) Dynamics, kinematics of particles and rigid bodies, conservation of energy and momentum, inertial matrices.

Ph 352  ELECTROMAGNETISM I. (3) Coulomb's law, Ampere's law, Faraday's law, Maxwell's electromagnetic equations in free space and material media. Course is given in vector notation.

Ph 356  METHODS OF MATHEMATICAL PHYSICS. (3) Matrix and vector algebra, complex variables, integral transforms, and linear partial differential equations.

Ph 364  PHYSICAL OPTICS. (3) Electromagnetic wave theory is used to derive the laws of optics: reflection, refraction, diffraction, Fresnel integrals, and theory of dispersion.

Ph 365  OPTICS LABORATORY. (1) Experiments in Physical Optics, including diffraction, Michelson's interferometer, multiple beam interference, polarization, and various experiments on the prism spectrograph.

Ph 366  ATOMIC PHYSICS. (3) The atomic view of matter, electricity, and radiation; the atomic models of Rutherford and Bohr, relativity, X-rays, and introduction to quantum mechanics.

Ph 372  ELECTROMAGNETIC THEORY. (3) Lasers, holography, spatial filtering, and coherence of electromagnetic radiation.

Ph 374  NUCLEAR PHYSICS. (3) Natural and artificial radioactivity, nuclear reactions, high-energy physics, and fundamental particles. Prerequisite: Ph 366.

Ph 375  ATOMIC PHYSICS LABORATORY. (2) Photoelectric effect, e/m for electrons, black body radiation, vacuum and glass work techniques, ionization potentials, Bragg diffraction, atomic spectra.

Ph 376  INTRODUCTION TO QUANTUM MECHANICS. (3) The mathematical formalism of quantum mechanics and its physical interpretation. Prerequisite: Ph 366.

Ph 381  NUCLEAR PHYSICS LABORATORY. (1) Experiments in radioisotope techniques, nuclear particle counting, and instrumentation.

Ph 382  THERMODYNAMICS. (3) Thermodynamic variables and processes, internal energy of a system, first and second laws of thermodynamics. Carnot cycle, entropy and irreversibility.

Ph 388  GEO-ASTROPHYSICS. (3) The applied fields of geophysics, atmospheric physics, astronomy, and astrophysics.
Ph 390 **SPECIAL STUDIES.** (3) Area to be specified.
Ph 392 **SENIOR REVIEW.** (2)
Ph 397 **SPECIAL READINGS.** (1-3) Area to be specified.
Ph 398 **SENIOR RESEARCH.** (1-3)
Ph 410 **HANDS-ON DEVELOPMENTAL SCIENCE.** (2) (Ed 410).
Ph 411 **WORKSHOP: BASIC ELECTRONICS FOR TEACHERS.** (2) (Ed 411).
# Political Science (Po) and Sociology (So)

*Staff: DR. HEIGHBERGER, chairman; FR. JOHNSON, DR. MOULTON. MR. WEIR. DR. WEISSBUCH*

*Assisted by: MR. BEAUPRE, DR. GOODMAN, DR. GRUBER, MR. MALONEY, MR. McVAY, DR. SIMON*

## Political Science (Po)

### Lower Division Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Po 101</td>
<td><strong>PRINCIPLES OF GOVERNMENT.</strong></td>
<td>3</td>
<td>Principles of political parties, national government, foreign policy, and international relations. Contemporary problems. Professional thought patterns and motivation.</td>
</tr>
<tr>
<td>Po 110</td>
<td><strong>AMERICAN GOVERNMENT.</strong></td>
<td>3</td>
<td>Legal, behavioral, historic, and contemporary aspects of the American political system. (CJ 110).</td>
</tr>
<tr>
<td>Po 140</td>
<td><strong>INTRODUCTION TO PUBLIC POLICY.</strong></td>
<td>3</td>
<td>Governments, institutions and processes will be examined within the context of various problems. Consequences of governmental action.</td>
</tr>
</tbody>
</table>

### Upper Division Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Po 221</td>
<td><strong>COMPARATIVE GOVERNMENT—EUROPE.</strong></td>
<td>3</td>
<td>The politics of Great Britain and France. Political developments, governmental institutions, parties, pressure groups, electoral systems, and the structure of society.</td>
</tr>
<tr>
<td>Po 224</td>
<td><strong>MIDDLE EAST TODAY.</strong></td>
<td>3</td>
<td>(Hs 224).</td>
</tr>
<tr>
<td>Po 233</td>
<td><strong>HISTORY OF POLITICAL THEORY.</strong></td>
<td>3</td>
<td>Men and ideas. The major thinkers in history are studied for their effects on political problems today.</td>
</tr>
<tr>
<td>Po 235</td>
<td><strong>SOVIET RUSSIA AND COMMUNISM.</strong></td>
<td>3</td>
<td>The government, foreign policy, and ideology of the Union of Soviet Socialist Republics. Interaction with the government, policies and ideals of the United States. (Hs 235).</td>
</tr>
<tr>
<td>Po 237</td>
<td><strong>SEMINAR: USSR-USA CONFRONTATION.</strong></td>
<td>3</td>
<td>(Hs 237).</td>
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<tr>
<td>Po 238</td>
<td><strong>TWENTIETH-CENTURY EASTERN EUROPE.</strong></td>
<td>3</td>
<td>(Hs 238).</td>
</tr>
<tr>
<td>Po 242</td>
<td><strong>ENGLAND SINCE 1867.</strong></td>
<td>3</td>
<td>(Hs 242).</td>
</tr>
<tr>
<td>Po 243</td>
<td><strong>CONSTITUTIONAL GOVERNMENT OF ENGLAND.</strong></td>
<td>3</td>
<td>Constitutional and current political trends in contemporary England. Weekly review of events in the order established by the British Constitution.</td>
</tr>
<tr>
<td>Po 245</td>
<td><strong>THE ATLANTIC COMMUNITY.</strong></td>
<td>3</td>
<td>(Ec 245).</td>
</tr>
<tr>
<td>Po 246</td>
<td><strong>CINCINNATI GOVERNMENT AND POLITICS.</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Po 260</td>
<td><strong>POLITICAL SOCIOLOGY.</strong></td>
<td>3</td>
<td>(So 260).</td>
</tr>
<tr>
<td>Po 263</td>
<td><strong>HISTORY OF TERRORISM.</strong></td>
<td>3</td>
<td>(Hs 263).</td>
</tr>
</tbody>
</table>
Political Science


Po 275 SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Hs 275).

Po 279 INDIA SINCE 1857 AND PAKISTAN. (3) (Hs 279).

Po 284 JAPAN SINCE 1868. (3) (Hs 284).

Po 286 CHINA SINCE 1644. (3) (Hs 286).

Po 298 ADVANCED READING AND RESEARCH. Credit to be arranged.

Po 330 GOVERNMENT AND BUSINESS. (3) (SW 330).

Po 332 INTRODUCTION TO PUBLIC ADMINISTRATION. (3) Local and state. Primary emphasis is on national problems and the federal civil service.

Po 335 PUBLIC FINANCE AND TAXATION. (3) (Ec 335).

Po 340 THE PRESIDENCY. (3) Federal-State relationships. The constitutional concept of the office. The President as administrator, as commander-in-chief in wartime, as organ of foreign relations, and as political leader.

Po 345 PRESSURE GROUPS AND CONGRESS. (3) A study of pressure groups and group theory as it applies to the United States. Special emphasis on the structure and operation of Congress.

Po 348 CONSTITUTIONAL HISTORY OF U.S. TO 1865. (3)

Po 349 CONSTITUTIONAL HISTORY OF U.S. SINCE 1865. (3) (Hs 349).

Po 351 AMERICAN REVOLUTION: CONFLICT AND CONSENSUS. (3) (Hs 351).

Po 352 PRINCIPLES OF RESEARCH. (3) (So 352).

Po 353 INTERMEDIATE SOCIAL RESEARCH. (3) (So 353).

Po 358 URBAN AMERICA. (3) (Hs 358).

Po 359 STATE AND LOCAL GOVERNMENT. (3)

Po 360 AMERICAN POLITICAL PARTIES. (3) (Hs 360).

Po 361 HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) (Hs 361).


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Sociology

Po 365 **THE NEGRO IN AMERICA.** (3)

Po 370 **FOREIGN AFFAIRS IN THE UNITED STATES.** (3) Current policies and operations. State Department organization. The Career Foreign Service and related agencies.

Po 371 **INTER-AMERICAN RELATIONS.** (3) (Hs 371).

Po 374 **UNITED STATES FOREIGN POLICY.** (3) The emerging policies of the United States of America from the period of its revolutionary origin through the crises of the present time. (Hs 374).

Po 375 **PROBLEMS IN POLITICAL GEOGRAPHY.** (3) Contemporary foreign policy in its many geographical and environmental relationships. Population, raw materials, and the history of geopolitical theories. (Hs 375).


Po 390 **SEMINAR IN INTERNATIONAL RELATIONS.** (3) Senior comprehensive paper. Research methods.

Po 391 **PROBLEMS IN AMERICAN GOVERNMENT.** (3) Selected problems. The processes of American government in dealing with problems. Taken in senior year.

Po 395 **DIRECTED STUDY.** Credit to be arranged.

Po 396 **INTERNATIONAL AFFAIRS INTERNSHIP.** (3) (IA 396).

Po 397 **INTERNSHIP: LOCAL.** (3) (Hs 397, So 397).

**Graduate Courses**

Po 524 **SEMINAR: THE MIDDLE EAST TODAY.** (3) (Hs 524).

Po 537 **SEMINAR: USSR-USA CONFRONTATION.** (3) (Hs 537).

Po 546 **SEMINAR: AMERICAN GOVERNMENT.** (3) The national political system. Designed to meet the needs of teachers in service as well as students doing advanced work in history and political science. (Hs 546).

Po 568 **SEMINAR: CONFLICTS IN SOUTHERN AFRICA.** (3)

Po 573 **SEMINAR: SOUTHEAST ASIA SINCE WORLD WAR II.** (3) (Hs 573).

Po 577 **SEMINAR: INDIA SINCE 1857 AND PAKISTAN.** (3) (Hs 577).

Po 584 **SEMINAR: JAPAN SINCE 1868.** (3) (Hs 584).

Po 586 **SEMINAR: CHINA SINCE 1644.** (3) (Hs 586).

Po 674 **SEMINAR: UNITED STATES FOREIGN RELATIONS.** (3) (Hs 674).

**Sociology (So)**

**Lower Division Courses**

So 101 **INTRODUCTION TO SOCIOLOGY.** (3) Social behavior within the context of group structure, society, and culture. Basic sociological terminology and methodology.
Sociology

So 180  **CULTURAL ANTHROPOLOGY.** (3) Concepts and materials of culture from the field of ethnography, ethnology, and archaeology. Origin, development, universals and variations of culture through cross-cultural analysis.

**Upper Division Courses**

So 216  **SOCIOLOGY OF RELIGION.** (3) Classical and contemporary sociological perspectives concerning relationship between religion and society. (Th 216).

So 230  **SOCIOLOGY OF LEISURE AND RECREATION.** (3) The role and functions of leisure and recreation in culture and society.

So 232  **SOCIOLOGY OF SPORT.** (3) Organized sport as an important institutional component of American culture and society.

So 242  **URBAN SOCIOLOGY.** (3) Historical development and demographic patterns of the city and its environs. Sociocultural and ecological perspectives used to examine urban, suburban, and rural areas.

So 245  **APPALACHIAN IN URBAN LIFE.** (3) Subcultural contact with the urban community. Social and economic adjustment problems of this group. (Ed 245).

So 250  **RACIAL AND ETHNIC MINORITIES.** (3) Minority groups in contemporary United States. Social processes involved in dominant minority relations.

So 260  **POLITICAL SOCIOLOGY.** (3) Bureaucratic organization, authority, power, and voting behavior in political institutions. Relationships to social conditions and social institutions.

So 262  **WOMEN IN AMERICAN SOCIETY.** (3) Women in social, economic, and structural (bureaucratic) settings. An examination of changing roles and status.

So 265  **CLASS AND CLASS CONFLICT.** (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective. (CJ 265).

So 266  **UTOPIAN COMMUNITIES.** (3) Course examines, in historical and contemporary settings, Utopian writings and actual attempts at establishing Utopian situations.

So 270  **INDUSTRIAL SOCIOLOGY.** (3) Industry as a social system and its relationship to the community. Structure, function, and strain of industrial roles.

So 282  **ANTHROPOLOGY OF THE AMERICAN INDIAN.** (3) Prehistory and development of Indian culture in North America. Similarities and differences by cultural area.

So 285  **MAGIC AND WITCHCRAFT.** (3) Mysticism and the supernatural in social context. Discovering the meanings and functions of magic and witchcraft within various cultural contexts.


So 300  **SOCIOLOGICAL THEORIES.** (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.

So 310  **MARRIAGE AND THE FAMILY.** (3) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting. (Ps 310, Th 310).
Sociology

So 316  **COMPLEX ORGANIZATIONS.** (3) A critical survey of formal organizations and the social processes and behaviors associated with them. Authority, control, motivation, socialization, and alienation are among the areas to be discussed. (Mg 316).

So 352  **PRINCIPLES OF RESEARCH.** (3) (Po 352).

So 353  **INTERMEDIATE SOCIAL RESEARCH.** (3) (Po 353).

So 395  **DIRECTED STUDY.** Credit to be arranged.

So 397  **INTERNSHIP: LOCAL.** (3) (Hs 397, Po 397).

So 426  **THE AMERICAN FAMILY: WILL IT SURVIVE?** (2) (Ed 426).

So 488  **HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS.** (2) (CJ 233, Cr 488, Ed 488, Ps 488).
Psychology (Ps)

Staff: DR. BARRY, chairman; DR. SCHMIDT, assistant chairman; DR. BIELIAUSKAS, Riley Professor; DR. BERG, DR. CERBUS, DR. CHAPPONE, DR. CLARKE, DR. CUSGROVE, DR. DEARDORFF, DR. FEUSS, FR. FOLEY, DR. HELLKAMP, DR. KRONENBERGER, MR. LaGRANGE, DR. MEZINSKIS, DR. NELSON, DR. QUATMAN, DR. SCHMIDTGOESSLING

Assisted by: DR. ANGER, DR. COLLIGAN, DR. DACEY, DR. DAHMANN, MR. DINERMAN, MS. GLUECK, DR. HURREL, DR. JUDD, DR. KAPP, DR. KUHLMAN, DR. LEHMAN, DR. LIPPERT, DR. SCHNEIDER, DR. SEIDNER, DR. SMITH

Lower Division Courses

Ps 100 EFFICIENT READING AND STUDY SKILLS. (1) Reading comprehension, rate of reading, study habits. Increase ability to interpret, analyze, and evaluate general reading material and specific course areas.

Ps 101 GENERAL PSYCHOLOGY. (3) Basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, personality development.

Ps 102 ADVANCED GENERAL PSYCHOLOGY. (3) Scientific methodology in psychology. Application to experimental studies in perception, motivation, thinking, memory, learning, individual differences. Prerequisite: Ps 101.

Ps 121 GENERAL EXPERIMENTAL PSYCHOLOGY. (2) Principles of behavioral science: sensory functions, perception, learning, emotion, motivation. Fulfills science requirement for non-psychology majors. See Ps 122.

Ps 122 GENERAL EXPERIMENTAL PSYCHOLOGY I LABORATORY. (1) (Three laboratory hours per week.) Laboratory experiments demonstrating principles described in the lectures (Ps 121). To be taken with Ps 121.

Ps 123 GENERAL EXPERIMENTAL PSYCHOLOGY II. (2) Behavior problems: memory, language, interpersonal behavior, personality, human performance, man-machine systems. Fulfills science requirement for non-psychology majors. See Ps 124.

Ps 124 GENERAL EXPERIMENTAL PSYCHOLOGY II LABORATORY. (1) (Three laboratory hours per week.) Experiments demonstrating principles described in the lectures (Ps 123). To be taken with Ps 123.

Ps 141 HUMAN GROWTH AND DEVELOPMENT I. (3) (Ed 141).

Ps 142 HUMAN GROWTH AND DEVELOPMENT II. (3) (Ed 142).

Upper Division Courses

Ps 201 HISTORY AND SYSTEMS OF PSYCHOLOGY. (2-3) Modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required.

Ps 210 STATISTICAL TECHNIQUES. (2-3) Basic statistics in psychology and education. Measures of central tendency and variability, correlational techniques, and experimental test of differences among groups. (Ed 510).

Ps 215 HUMAN LIFE CYCLE I: CHILD. (3) Psychological, physiological, and social development of the child from conception to adolescence.
Psychology

Ps 216 **HUMAN LIFE CYCLE II: ADOLESCENT - ADULT.** (3) Psychological, physiological, and social approach to development and experience from adolescence to death. (Interdisciplinarily taught.) (SW 216).

Ps 221 **EXPERIMENTAL PSYCHOLOGY I.** (3) Aims and techniques of experimental psychology. Physiological bases of behavior, senses, perception. One lecture, four hours lab per week. Prerequisites: Ps 101, 102, 210.

Ps 222 **EXPERIMENTAL PSYCHOLOGY II.** (3) Learning, emotion, motivation, social behavior. Animal and human subjects. Planning, instrumentation, controls. One lecture, four hours lab per week. Prerequisite: Ps 221.

Ps 231 **DEVELOPMENTAL PSYCHOLOGY.** (3) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration. (Ed 231).

Ps 232 **CHILD PSYCHOLOGY.** (2-3) The genetic study of growth and development; hereditary and environmental factors, early and later childhood to puberty. (Ed 232).

Ps 233 **adolescent psychology.** (2-3) Interrelated physical, social, and moral development associated with youth and adolescence. (Ed 233).

Ps 235, **PSYCHOLOGY OF GROWTH AND DEVELOPMENT I & II.** (3,3) The study of human development from conception through death with a special emphasis on physiological maturation and decline.

Ps 251 **industrial psychology.** (2-3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American industry. (IR 330, Mg 321).

Ps 261 **social psychology.** (2-3) The individual's personality, attitudes, and behavior in multi-individual situations. (Ed 261, SW 261).

Ps 266 **crime and personality.** (3) Roots causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (CJ 266, Cr 566, Ed 266).

Ps 271 **INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD.** (2) (Ed 271).

Ps 274 **Mental hygiene.** (2) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ed 274).

Ps 276 **PSYCHOLOGY OF DELINQUENCY.** (2) Types and causes of juvenile delinquency together with brief case histories. (CJ 276, Cr 576, Ed 276).

Ps 277 **abnormal psychology.** (2-3) Dynamics of the disturbed personality, symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. (Ed 277).

Ps 279 **PSYCHOLOGICAL AND ACHIEVEMENT TESTS.** (2-3) (Ed 579).

Ps 281 **READINGS IN PSYCHOLOGY.** (1-3) Library research project assisted and supervised by staff member. Final oral exam. Seniors, graduate students only. Required research paper.

Ps 285 **THE PSYCHOLOGY OF RELIGION.** (3) (Th 285).

Ps 287 **humanistic psychology.** (3) (Ed 587).

Ps 290 **UNDERGRADUATE PRACTICUM IN PSYCHOLOGY.** (3) Interviewing, behavior observation, test administration, report writing, and group dynamics through on-the-job training. Open to seniors only, upon approval of the Departmental Chairman.

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Ps 299 **SENIOR COMPREHENSIVE REVIEW.** (2) Required of all majors. May substitute original research project upon approval of Departmental Chairman. Prerequisites: senior standing and instructor’s approval.

Ps 310 **MARRIAGE AND THE FAMILY.** (3) (So 310, Th 310).

Ps 352 **INTRODUCTION TO CLINICAL PSYCHOLOGY.** (3) The course is designed to provide an understanding of the different types of activities typically engaged in by clinical psychologists.

Ps 365 **PSYCHOLOGY OF WOMEN.** (2-3) (Ed 365).

Ps 367 **PSYCHOLOGY OF AGING.** (3) The interrelationship between biological-cognitive personality and social changes associated with aging.

Ps 395 **DIRECTED STUDY.** Credit to be arranged.

Ps 409 **GROUP DYNAMICS.** (3) In depth consideration of basic dynamics and processes operating in groups and the various strategies used in the group approach as they relate to educational, business, social and personal interactions and problems. (SW 409).


Ps 464 **THEORIES OF PERSONALITY II.** (2-3) Description and evaluation of current personality theories. Continuation of Ps 463. (Ed 464).

Ps 488 **HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS.** (2) (CJ 233, Cr 488, Ed 488, So 488).

### Graduate Courses

The following courses are required of all graduate students: 463, 464, 501, 502, 505, 511, and 521.

Ps 501 **CONTEMPORARY THEORIES IN PSYCHOLOGY.** (3) An evaluative review of the concepts basic to current theory, research, and practice in psychology and its major divisions.

Ps 502 **PHILOSOPHICAL ISSUES IN PSYCHOLOGY.** (3) Historical development of basic psychological concepts from Aristotle to the present. Interrelations between science, art, philosophy, and theology in understanding human nature.

Ps 503 **ADVANCED EDUCATIONAL PSYCHOLOGY.** (3) (Ed 503).

Ps 505 **PROFESSIONAL PROBLEMS IN PSYCHOLOGY.** (1) Basic principles of ethics and their application to psychological theory, research, and practice. Case studies.


Ps 521 **ADVANCED EXPERIMENTAL PSYCHOLOGY.** (3) Intensive survey of experimental procedures and findings; utilization of laboratory equipment; introduction to individual laboratory research.

Ps 529 **BEHAVIOR THERAPY.** (3) Theoretical and empirical bases of behavior therapy. Projects using different techniques in a variety of settings with a variety of problems. (Ed 529).
Psychology

Ps 530 **LEARNING AND MOTIVATION.** (3) Theories of learning. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention, and forgetting. (Ed 530).

Ps 532 **PRINCIPLES OF GUIDANCE.** (2) (Ed 532).

Ps 533 **COUNSELING PRINCIPLES AND TECHNIQUES.** (2) (Ed 533).

Ps 536 **GROUP GUIDANCE.** (2) (Ed 536).

Ps 553 **MARKETING RESEARCH.** (3) (BA 562).

Ps 580 **PSYCHOPATHOLOGY.** (2) (Ed 580).

Ps 582 **INDIVIDUAL TESTS OF INTELLIGENCE.** (2-4) (Ed 582).

Ps 584 **PERSONALITY ASSESSMENT TECHNIQUES I.** (3)

Ps 585 **PERSONALITY ASSESSMENT TECHNIQUES II.** (3)

Ps 589 **COUNSELING AND PSYCHOTHERAPY.** (3)

Ps 590 **PRACTICUM: EXPERIMENTAL PSYCHOLOGY.** (3)

Ps 591 **PRACTICUM: CLINICAL PSYCHOLOGY.** (3)

Ps 592 **PRACTICUM: COUNSELING PSYCHOLOGY.** (3)

Ps 593 **PRACTICUM: INDUSTRIAL PSYCHOLOGY.** (3)

Ps 598 **INTRODUCTION TO PSYCHIATRIC TREATMENT METHODS.** (3)

Ps 600, **WORKSHOPS AND INSTITUTES.** Titles and credit hours will be announced in each individual case.

Ps 643 **SEMINAR: INDUSTRIAL PSYCHOLOGY.** (3)

Ps 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS.** (3) (Ed 644, BA 644).

Ps 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD.** (3) (Ed 646).

Ps 647 **CLINICAL STUDIES: TEACHING THE EMOTIONALLY DISTURBED CHILD.** (2) (Ed 647).

Ps 648 **TEACHING PRACTICUM: LEARNING AND BEHAVIOR DISORDERS.** (2-3) (Ed 648).

Ps 649 **TEACHING INTERNSHIP: LEARNING AND BEHAVIOR DISORDERS.** (4-6) (Ed 649).

Ps 652 **CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT.** (3) (Ed 652).

Ps 653 **EARLY COGNITIVE DEVELOPMENT.** (3) (Ed 653).

Ps 670 **PSYCHOLOGY OF READING.** (2) (Ed 670).

Ps 689 **RESEARCH IN PSYCHOLOGY.** (3) Titles to be specified.

Ps 699 **MASTER'S THESIS.** (6)

Ps 717 **COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS.** (1) (Ed 717).
Theology (Th)

Staff: FR. MOELL, chairman; DR. BIGANE, FR. CARTER, MR. DEWEY, SR. GRAF, DR. GUDORF, FR. KING, FR. KLEIN (academic leave), DR. KNITTER, FR. OVERBERG

Assisted by: FR. BOKENKOTTER, FR. CIVILE, RABBI COHEN, FR. COOPER, MR. DOYLE, FR. HUSSEY, FR. MELTON, REV. THOMPSON, FR. ZALLER

Lower Division Course

Th 111 INTRODUCTION TO THEOLOGY. (3) The nature of revelation, religion, and reform examined in general terms and then illustrated from three major religious traditions. (Required of all students as their first theology course.)

Upper Division Courses

Th 200 EVOLUTION OF CHRISTIAN THEOLOGY. (3) The hermeneutical problem, understanding and handing on the Christian tradition through various ages and cultures. (Limited to majors and other interested and qualified students.)

Th 202 THEOLOGY OF REVELATION. (3) The relationship between divine revelation and human history through a study of the ways God speaks to us and the ways we respond to his word.

Th 203 CHRISTIAN SYSTEMATICS I. (3) Introduction to major systematic questions in Christian theology: faith, God, Christology. (Limited to majors and other interested and qualified students.)

Th 204 CHRISTIAN SYSTEMATICS II. (3) Introduction to major systematic questions in Christian theology: Church, sacraments, and living the Christian life. (Limited to majors and other interested and qualified students.)

Th 208 MYSTERY OF CHRIST. (3) Current Christological trends with emphasis on Scripture, historical developments, the humanity of Jesus, his resurrection, paschal mystery, presence, evolutionary world view.

Th 209 CHRISTIAN THOUGHT IN CONTEXT I. (3) The relationship between theology and social context from the sixth century to the Reformation.

Th 210 CHRISTIAN THOUGHT IN CONTEXT II. (3) The relationship between theology and social context from the Reformation to the present.


Th 216 SOCIOLOGY OF RELIGION. (3) (So 216).

Th 218 MYTH AND SYMBOL. (3) Religious experiences of primitive peoples as incorporated in stories. Myths, symbols, and images used. What stories, what symbols and images do we use to describe our religious experiences?

Th 219 LIFE AFTER DEATH. (3) The question of possible existence after death; views of contemporary philosophy, psychology, parapsychology, sociology, literature, with special attention given to the Christian, Buddhist, and Hindu traditions.

Th 220 CHRISTIAN COMMUNITY. (3) Study of the main issues facing Catholics as they strive to understand the Church and to become the kind of community envisioned by Vatican II—not primarily a hierarchical reality but a community of people working out their commitment to Christ.
Theology

Th 222 CHRISTIAN LIFE AND CELEBRATION. (3) Theology of the Christian life: liturgy, religious psychology, secular involvement, the Christian virtues, prayer, Christian community.

Th 223 SACRAMENTS TODAY. (3) Meaning of sacraments in general and Christian sacraments in particular. Historical and theological development of the seven ecclesial sacraments and their place in contemporary liturgical, pastoral, and spiritual renewal.

Th 229 WHY A CHURCH? (3) Nature and relevance of church-organized religion in light of the message of Jesus and of the needs of contemporary society.

Th 230 ROMAN CATHOLIC CHURCH AFTER VATICAN II. (3) Structure, worship, beliefs, and activities of the Roman Catholic Church, in its history and in light of the principal themes of Vatican II and ongoing developments.

Th 232 APPROACHES TO GOD. (3) Divine transcendence and the possibilities of human knowledge and experience of God. Contemporary problems of belief, unbelief, atheism.

Th 234 BLACK CHURCH IN THEOLOGY. (3) An interior view into the Black theological experience. Need to look at theology from a Black perspective. Roots of the Black Church as its response to bigotry of white churches and society.

Th 236 THE CHRISTIAN IN THE WORLD. (3) The secularization process in history; secularization and secularity; relation of the sacred and the secular; the Christian's involvement in the world.

Th 238 WOMEN AND RELIGION. (3) History of Christian teachings on woman's nature and place, interplay of religion and feminism in the 19th and 20th centuries, emphasis on recent feminist theology.

Th 249 GOD IN EVOLUTION. (3) The possibilities offered by process theology for a contemporary interpretation of Christian doctrines.

Th 250 INTRODUCTION TO SCRIPTURE. (3) Introduction to historical, literary, and religious development of both Old and New Testaments with emphasis on the use of the tools of scripture study. (One section limited to majors and other interested and qualified students.)

Th 252 NEW TESTAMENT THEOLOGY. (3) An investigation of the major religious questions of the New Testament.

Th 253 PSALMS AND WISDOM LITERATURE. (3) Study of the psalms: their literary composition and theological content; and of the writings of the Old Testament which have the perspective of wisdom, such as Job, Ecclesiastes, Sirach.

Th 255 OLD TESTAMENT PROPHETS. (3) A study of the writings of Israel's prophets with special attention given to the historical period, religious content, and uniqueness of each prophet.

Th 261 WRITINGS OF ST. PAUL. (3) Principal ideas of the Pauline letters and the distinctive contribution of Paul to Christian theology.


Th 263 THE PARABLES: A WORKSHOP. (3) What is a parable? Which ones are authentic? What are the sources for Jesus' parables? What image of Jesus emerges from this search? Can we still speak in parables today?
Theology

Th 265 Gospel of Mark. (3) Analysis of the Gospel of Mark in light of its historical, literary, and theological context.


Th 271 New Testament Christology. (3) Basis for and meaning of the affirmation that Jesus is the Messiah; other important titles for Jesus; three early interpretations of Jesus.

Th 272 New Testament Ethics. (3) Through a critical examination of selected New Testament texts this course attempts to answer the challenge: Can the NT still speak to the moral crises of today?

Th 275 Book of Revelation. (3) Comparison with other apocalyptic and political thinking of its time. Subsequent use in history of Church and culture (especially U.S.).

Th 278 Gnosticism and Early Christianity. (3) Origin, nature, and literature of gnosticism in comparison with early Christianity. Readings in Gnostic and Christian literature. Prerequisite: introductory course in Scripture.

Th 285 Psychology of Religion. (3) Scientific investigation of religious experience; origins, expressions, growth, maturity, and attitudes in the context of personality. (Ps 285).

Th 286 Autobiography and Discovery. (3) Reading, reading about, and writing autobiography. The process of self-composition and identity.

Th 293 Jesus in Modern Fiction. (3) Modern fiction as it illuminates and is illuminated by the study of the Jesus of the gospels and of contemporary Christology.

Th 294 Theopoetic: Modern Literature and the Religious Imagination. (3) Readings in literature which continue to expand the limits of the Christian imagination.

Th 295 The Atoning Imagination. (3) Study of the healing aspect of the imagination, particularly in light of early Christian experience.

Th 302 Principles of Christian Morality. (3) Basic concepts of Christian ethics with case studies from medical, sexual, and social ethics to illustrate the principles.

Th 303 Christian Ethics: Methods and Questions. (3) Introduction to the methods and central questions of Christian ethics. (Limited to majors and other interested and qualified students.)

Th 304 Christianity and Marxism. (3) Comparison of some major themes in Christianity and in Marxism; history of Marxist-Christian dialogue in this century.

Th 307 North American Liberation Theology. (3)

Th 310 Marriage and the Family. (3) A practical overview of marriage in light of Church tradition and insights from contemporary studies. Team-taught with the interaction of psychologist, sociologist, and theologian. (Ps 310. So 310).

Th 311 Faith and Justice. (3) Relationship between Christian faith and social justice viewed in both Christian tradition and recent thought and documents of the Church.

Th 312 Christian Medical Ethics. (3) Evaluation of the options open within medicine—from structuring a health care policy which benefits all equally to deciding on humane ways of dying.
Theology

Th 313 **Christian Sexual Ethics.** (3) Ethical criteria Christians use in judging human sexuality from its origins throughout its development. Sex role socialization and common options in sexual behavior.

Th 314 **Christian Business Ethics.** (3) Major contemporary issues of economic concern.

Th 315 **Contemporary Ethical Issues.** (3) Current issues in light of Christian faith. See course description for specific issues to be studied in a particular semester.

Th 317 **War and Peace.** (3) Survey of Church teaching on war and peace, followed by analysis of contemporary social and religious movements toward peace and war. How are Christians called to peace?

Th 321 **Sin and Guilt.** (3) Biblical concept of sin, contemporary ideas of sin and guilt. Is there any reason to keep such concepts as sin? Does anyone sin anymore?

Th 322 **Eastern Christian Churches.** (3) A study of the history, liturgy, art, and spirituality of Eastern Christianity.

Th 326 **The Christian at Prayer.** (3) Traditional and contemporary topics concerning the theory and practice of Christian prayer.

Th 327 **Christian Mysticism.** (3) Is mysticism a human or divine experience? Is it for everyone? Does it affirm or deny the world? Is it politically informed?

Th 328 **Christian Worship.** (3) Ritualization of the Christian experience in Word and Eucharist. Ritualization of Christian initiation, reversion, marriage, ministry, illness, death, and burial. The arts in ritual.

Th 330 **Jesuit Spirituality Today.** (3) Study of Ignatius Loyola and his spiritual journey in historical context and as the foundation of Jesuit relevancy for reform today.

Th 331 **History of the Church I.** (3) A study of the images, structure, and self-understanding of the Church from the New Testament era through the Middle Ages.

Th 332 **History of the Church II.** (3) A study of the Church, especially in its relationship to a changing society, from the Protestant Reformation to the Second Vatican Council.

Th 337 **Religious Education Practicum.** (3) Supervised teaching of religion on the elementary or secondary levels.

Th 343 **Dialogue Among World Religions.** (3) The foundations for a greater ecumenism among all religions; how Christians can come to a more positive attitude towards other religions.

Th 344 **Far Eastern Religions.** (3) An attempt to understand and to enter into the experience behind the teachings and practices of the Eastern religions: Hinduism, Buddhism, Confucianism, Taoism, Zen.

Th 345 **Introduction to the Church Fathers.** (3) The Fathers of the first five centuries. The Church's defense against pagans and heretics. Confrontation with the Empire. Development of doctrine. (Cl 345).

Th 351 **Heritage of Judaism.** (3) (formerly Edgecliff Th 323) Development of monotheism, social action, and democracy; institution of the synagogue; influence of individual Jews. Relationship between Judaism and Christianity. *(Sponsored by the Jewish Chautauqua Society).*
Th 352 JUDAISM: CUSTOMS, PRACTICES, BELIEFS. (3) (formerly THE JEWISH EXPERIENCE I and Edgecliff Th 324) A basic understanding of Judaism and its component parts. Brief overview of Jewish history and study of Jewish religious calendar of holidays and life-cycle experiences. (Sponsored by the Jewish Chautauqua Society).

Th 353 THE HOLOCAUST. (3) (formerly THE JEWISH EXPERIENCE II and Edgecliff Th 328) The Holocaust in Europe during the Hitler period. Analysis of the causes and background of the destruction of European Jewry. (Sponsored by the Jewish Chautauqua Society).

Th 365 THEOLOGY OF CHRISTIAN UNITY. (3) Principles of Christian unity according to Vatican II and contemporary theologians. History of ecumenism and analysis of recent agreed statements.

Th 368 DANTE'S DIVINE COMEDY AS THEOLOGY. (3) The encounter with sin and evil and the return to innocence and intimacy through purgation and transformation.

Th 369 THE RENAISSANCE. (3) The late medieval church and its social context; the transition from a feudal and agrarian society to one urban and secular. (Hs 215).

Th 370 THE REFORMATION. (3) Protestant, Catholic, and "Anabaptist" attempts to revitalize a Christianity insufficiently Christian. (Hs 216).

Th 371 BAROQUE CATHOLICISM (3) Between Luther and Voltaire (1550-1789), Catholics faced a variety of challenges and opportunities. Among the controversies are: Galileo affair, rise of Jansenism, Chinese rites, suppression of the Jesuits. (Hs 217).

Th 372 ENGLISH REFORMATION. (3) (Hs 218).

Th 374 AMERICAN RELIGIOUS HISTORY. (3) The relationship between Protestant and Free Church communities and the American ethos.

Th 376 AMERICAN CATHOLIC HISTORY. (3) The relationship between Roman Catholicism and the American ethos.

Th 390 SENIOR SEMINAR. (3) Review of theological methodologies in preparation for the senior synthesis paper and examination. (Required of and limited to theology majors.)

Th 394 UNIVERSITY SCHOLARS' SEMINAR: JESUS-BUDDHA. (3)

Th 395 DIRECTED STUDY. Credit to be arranged.

Graduate Courses

Th 502 CHRISTIAN TRADITION AND THE TASK OF UNDERSTANDING. (3) Enables the student to confront fundamental elements of the Christian tradition and to become aware of the need for a critical methodology. The approach/method of a particular thinker may be studied.

Th 505 GOSPEL OF MARK: THE DRAMA OF DISCIPLESHIP. (3) In-depth analysis of the Gospel of Mark in light of historical, literary, and theological context. Present-day dialogue with the Gospel's fundamental theological questions.

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<tr>
<td>Th 511</td>
<td><strong>Paul's Concept of Community.</strong> (3)</td>
<td>A dialogue on three levels: with Paul, with our own traditional understandings of community, and with our present communal experience. Course method will be that of presenting theses: statements or propositions which present a position or perspective for discussion and debate.</td>
</tr>
<tr>
<td>Th 515</td>
<td><strong>Isaiah.</strong> (3)</td>
<td>A study of the 66 chapters ascribed to Isaiah. Emphasis on historical background, on religious ideas of the author(s), and on commentaries on his/their works.</td>
</tr>
<tr>
<td>Th 530</td>
<td><strong>Contemporary Christologies.</strong> (3)</td>
<td>A study of various systematic approaches to the mystery of Christ and specific Christological models.</td>
</tr>
<tr>
<td>Th 531</td>
<td><strong>God: Problem and Mystery.</strong> (3)</td>
<td>Basic themes of the theological treatise on God (existence of God, atheism, creation, the Trinity) discussed within the context of fundamental questions of life (anxiety, death, evil, hope, fulfillment).</td>
</tr>
<tr>
<td>Th 540</td>
<td><strong>Modern Catholic Social Teaching.</strong> (3)</td>
<td>Papal (and certain episcopal) social teaching since Leo XIII (1878). Includes employer-employee relations, poverty, democracy, socialism, Church-State relations, violence, racism, sexuality, family and women's rights, education, international economics, human rights of all kinds.</td>
</tr>
<tr>
<td>Th 549</td>
<td><strong>Theological Ethics.</strong> (3)</td>
<td>Key concepts of Christian ethics: revelation, the human person, conscience, law, freedom, sin, and authority.</td>
</tr>
<tr>
<td>Th 553</td>
<td><strong>Psalms and Wisdom Literature.</strong> (3)</td>
<td>In-depth study of the prayers used by Israel in public and private worship; and of the Wisdom literature of Israel, with emphasis on Job, Proverbs, Ecclesiastes, and Sirach.</td>
</tr>
<tr>
<td>Th 559</td>
<td><strong>Christian Spirituality: Past and Present.</strong> (3)</td>
<td>History of Christian spirituality and themes of contemporary spirituality.</td>
</tr>
<tr>
<td>Th 560</td>
<td><strong>Augustine, Thomas, Luther.</strong> (3)</td>
<td>Relationship between the theological achievements of Augustine, Thomas Aquinas, and Martin Luther and their societal and cultural matrices.</td>
</tr>
<tr>
<td>Th 561</td>
<td><strong>Theology of Prayer.</strong> (3)</td>
<td></td>
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<tr>
<td>Th 565</td>
<td><strong>Religious Experience: East-West.</strong> (3)</td>
<td></td>
</tr>
<tr>
<td>Th 570</td>
<td><strong>Process Theology.</strong> (3)</td>
<td>Evaluation of the use contemporary theologians, Catholic and Protestant, are making of process philosophy to reinterpret Christian tradition.</td>
</tr>
<tr>
<td>Th 583</td>
<td><strong>Christian Initiation.</strong> (3)</td>
<td>Foundational role of the process of Christian initiation for the quality of church life and mission and for sacramental/liturgical theology.</td>
</tr>
<tr>
<td>Th 591</td>
<td><strong>Theology of Karl Rahner.</strong> (3)</td>
<td>Analysis of Rahner's Foundations of Christian Faith. Topics include: the human person, God, grace, Jesus Christ, Church, and the sacraments.</td>
</tr>
<tr>
<td>Th 610</td>
<td><strong>Ethics, Sexuality, and Family.</strong> (3)</td>
<td>Sexuality and the family in Church teaching and in contemporary society from an ethical perspective: sex roles in marriage and family, intergenerational communication, family planning, abortion, family religious education, Church use of sexual imagery.</td>
</tr>
</tbody>
</table>
Th 675  RELIGION IN AMERICA. (3)
Th 685  CHURCH HISTORY AND HISTORIANS. (3)
Th 695  SPECIAL STUDY. (3)
Th 699  MASTER'S THESIS. (6)
Accounting (Ac) and Finance (Fi)

Staff: MR. VANDERBECK, chairman; MS. ALLEN, MR. BARTON, MR. BERBERICH, DR. CRAIL, MS. EVERT, DR. JANKOWSKE, MR. MAILY, MR. R. SCHUTZMAN, MR. SMITH, MR. WETZEL, MR. WILZ, MS. ZUCCA

Assisted by: MR. CAROTHERS, MR. CEDERGREN, MR. COHEN, MS. DIRVIN, MR. GRACE, MR. GRIFFIN, MR. GUMBLETON, MR. LARSEN, MR. SCHUTZMAN, MR. SNIDER

Accounting (Ac)

Lower Division Courses

Ac 100 PRINCIPLES OF ACCOUNTING I. (3) Accounting principles, practices, and systems for service and merchandising businesses. Accounting for partnership.

Ac 101 PRINCIPLES OF ACCOUNTING II. (3) Accounting for corporations; cost accounting and financial statement analysis. Prerequisite: Ac 100.

Upper Division Courses

Ac 200 INTERMEDIATE ACCOUNTING I. (3) A broad background of accounting theory and related problems applicable to business enterprises. Prerequisite: Ac 101.

Ac 201 INTERMEDIATE ACCOUNTING II. (3) A continuation of Ac 200, which is also a prerequisite.

Ac 220 COST ACCOUNTING I. (3) A study of elements in industrial production with special emphasis on cost reports; cost classification and cost systems. Prerequisite: Ac 201 or permission of instructor.

Ac 221 COST ACCOUNTING II. (3) Budgeting of profits, sales, costs, and expenses; standard costs; gross profit analysis; direct costing and contribution margin; etc. Prerequisite: Ac 220.

Ac 230 TAXATION OF INDIVIDUALS. (3) Special emphasis on federal tax law as it relates to individuals.

Ac 231 TAXATION OF PENSIONS, PROFIT SHARING PLANS, CAPITAL GAINS, ETC. (3) Tax planning as it relates to common problems of individuals, corporations, and partnerships. Prerequisite: Ac 230.

Ac 260 ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of the significance, development, and technique of financial statement analyses of business enterprises. Prerequisites: Ac 101, Fi 255.

Ac 297 TUTORIAL COURSE. (2-3) Special reading and study for advanced students.
Ac 310 \textbf{ADVANCED ACCOUNTING.} (3) Specialized areas of accounting including business combinations and consolidated financial statements, partnerships, estates and trusts, and fund accounting. Prerequisite: Ac 201.

Ac 315 \textbf{CURRENT ACCOUNTING ISSUES.} (3) Readings and research in current accounting literature as identified through releases of FASB, AICPA, and SEC. Prerequisite: Ac 201.

Ac 320 \textbf{AUDITING.} (3) A systems approach. An overview including legal ramifications, risk analysis, evaluation of internal control, designing audit procedures, and interpreting results. Prerequisite: Ac 201 or permission of instructor.

Ac 330 \textbf{INTERNAL AUDITING.} (3) An introduction to the theory and practice of modern internal auditing tools and techniques, standards, scientific methods, and an emphasis on information systems auditing and control. Prerequisite: Ac 320.

For graduate courses in accounting see Business Administration: Graduate Division.

For the M.B.A. degree with a concentration in accounting see Graduate School: the Master of Business Administration.

\textbf{Finance (Fi)}

\textbf{Lower Division Course}

Fi 100 \textbf{PERSONAL FINANCE.} (3) Planning and management of personal finances: credit, savings, insurance, real estate, investment, estate planning. (This course is not an acceptable finance elective for finance majors.)

\textbf{Upper Division Courses}

Fi 250 \textbf{MONEY AND BANKING.} (3) Prerequisite: Ec 101. (Ec 250).

Fi 255 \textbf{BUSINESS FINANCE.} (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: Ac 101.

Fi 265 \textbf{INVESTMENT.} (3) Techniques of investment analysis and portfolio management, including non-security investments. Includes a study of portfolio theory as well as other analytical approaches. Prerequisite: Fi 255.

Fi 270 \textbf{FINANCIAL INSTITUTIONS.} (3) A study of the operations and management of the major financial institutions in the U.S. Prerequisite: Fi 255.

Fi 280 \textbf{SECURITIES AND COMMODITIES MARKETS.} (3) Securities and commodities. Method and manner are studied primarily from the viewpoint of business management. Prerequisite: Fi 255.

Fi 301 \textbf{FINANCIAL MANAGEMENT.} (3) Major problems and methods used in financing business enterprises are studied primarily from the viewpoint of business management. Prerequisite: Fi 255, (Mg 301).

Fi 325 \textbf{MANAGEMENT CONTROL THROUGH ACCOUNTING.} (3) A study of the uses of internal accounting control procedures from a managerial perspective. Prerequisites: Ac 101, Fi 255, (Mg 325).

Fi 331 \textbf{APPLIED QUANTITATIVE METHODS FOR BUSINESS.} (3) Basic quantitative tools and methods. Algebraic and calculus concepts applicable to extensions into linear programming and the financial model of the firm. Prerequisites: Mt. 149, 150, (Mg 331, Mk 331).
Business Administration

Fi 380 CASES AND PROBLEMS IN FINANCE. (3) Case problems in financial analysis, working capital management, capital budgeting, capital structure, and dividend policy. Prerequisite: Fi 301.

Fi 390 INTERNATIONAL FINANCE. (3) Study of international monetary policy, money, and capital markets. Prerequisites: Fi 301, Ec 250.

Fi 397 TUTORIAL IN FINANCE. (3) Advanced reading and research in finance. Projects must have the approval of the Chairman.

Approved Electives toward accounting requirement: Ac 200, 201, Fi 325. Other courses may be approved upon consultation with, and agreement of, the Department.

Business Administration (BA)

The following are general business service courses in Business Administration. Professors are assigned to these courses by the other departments in the College of Business Administration.

BA 270 BUSINESS STATISTICS. (3) Descriptive statistics and statistical inference. Frequency distributions, measures of central tendency and dispersion, probability, sampling, estimation of parameters, test of hypotheses, and simple linear regression and correlation analysis.

BA 271 ADVANCED BUSINESS STATISTICS. (3) Chi square. Payoff tables. The value of Bayesian inference. Correlations. Regression. Time series analysis. Forecasting and design of sample surveys. Prerequisite: BA 270 or equivalent.

BA 280 LEGAL ENVIRONMENT. (3) To give the student a background of law by which he may critically evaluate the development of the law and the purposes which the law is intended to serve.


BA 290 UNIFORM COMMERCIAL CODE. (3) Preparation of candidates for the CPA exam.

Graduate Courses

Students selecting courses for the degree of Master of Business Administration must include the six core courses—BA 511, 512, 513, 514, 515, and 516—in their programs. They will include appropriate courses from the offerings for their area of concentration. As a capstone to their work, they will take BA 699, a seminar dealing with practical problems.

BA 501 BASIC ECONOMICS. (3) An accelerated course in the principles of economics for M.B.A. students without previous course work in economics.

BA 502 INTRODUCTION TO QUANTITATIVE METHODS. (2) Algebra, vectors, matrix algebra, differentiation, integration, and differential equations relevant to economic management. (Mg 330).

BA 503 FINANCIAL ACCOUNTING. (4) Accounting principles, practices, and systems relating to proprietorships, partnerships, and corporations.

BA 505 BASIC MARKETING. (2) Principles of marketing; concepts, functions, institutions, and policies.
BA 506 **BASIC STATISTICS.** (2) Descriptive statistics and classical statistical inference.

BA 507 **CORPORATE FINANCE.** (2) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: BA 503 or its equivalent.

BA 511 **ECONOMIC ENVIRONMENT.** (3) Functions of the economic system, national income, business fluctuations, forecasting, government economics. Keynesian economic analysis, monetary and fiscal policies. Prerequisite: BA 501 or its equivalent.

BA 512 **QUANTITATIVE BUSINESS METHODS.** (3) Probability, PERT, optimization, inventory, linear and non-linear programming, game theory, Markov analysis, queuing, heuristic programming, etc. Prerequisite: BA 502 or its equivalent.

BA 513 **MANAGERIAL ACCOUNTING.** (3) Management's use of accounting data through the analysis and interpretation of accounting reports and statements. Prerequisites: BA 503, 507 or their equivalents. (Waived for undergraduate accounting majors.)

BA 514 **MANAGEMENT OF ORGANIZATIONS.** (3) Techniques of planning, organizing, directing, and control in business with emphasis on the behavioral aspects.

BA 515 **MARKETING STRATEGY.** (3) The strategic planning process as it applies to marketing management. Current literature and techniques. Prerequisites: BA 503, 505, and 507 or their equivalents.

BA 516 **PROBLEMS IN BUSINESS FINANCE.** (3) A study of current problems involving financial analysis, current operations, capital budgeting, capital structure, and dividend policy. Prerequisites: BA 503, 507 or their equivalents. Recommended prerequisite: BA 513.

BA 525 **MULTINATIONAL MANAGEMENT.** (3) Planning international trade. Sources of information. Structuring multinational firms. Personnel development, especially communication/motivation.

BA 526 **MULTINATIONAL MARKETING.** (3) Product decisions, pricing decisions, and channel decisions in the world market environment. Stresses cultural differences.


BA 528 **INTERNATIONAL ACCOUNTING.** (3) The study of accounting issues faced by multinational enterprises and the way that different countries deal with accounting problems. Prerequisite: Ac 201.

BA 530 **MANAGERIAL ECONOMICS.** (3) Economic analysis as applied to practical business operation. Tools of economic analysis, types of economic competition and their effect on individual firms and industries. (Ec 530).

BA 532 **BUSINESS FORECASTING.** (3) (Ec 532).

BA 535 **BUSINESS AND PUBLIC POLICY.** (3) Government and business in the United States compared with other countries. Practical problems. Trends in regulation. Decision-making as caused, affected, and limited by regulation.

BA 539 **SEMINAR: CURRENT ECONOMIC PROBLEMS.** (3)
Business Administration

BA 545 TAXATION—STATE AND LOCAL. (3) Tax problems of individuals and companies as affected by city, county, and state governments. Prerequisite: Ac 230.

BA 546 TAXATION OF PARTNERSHIPS AND CORPORATIONS. (3) Tax problems and planning for partnerships and corporations. Prerequisite: Ac 230.

BA 547 TAX RESEARCH AND WORKING WITH IRS. (3) Tax research in the solution to complex problems. Prerequisite: Ac 230.

BA 548 TAXATION OF GIFTS, ESTATES, AND TRUSTS. (3) Tax problems in the areas of gifts, estates, and trusts. Prerequisite: Ac 230.

BA 549 TAXATION OF NON-PROFIT ORGANIZATIONS. (3) Tax problems of churches, political action groups, and numerous other not-for-profit organizations. Prerequisite: Ac 230.

BA 550 INTERNATIONAL TAXATION. (3) A broad analysis of the taxation of income by foreign countries. Prerequisite: Ac 230.

BA 551 MONEY AND CAPITAL MARKETS. (3) Financial institutions and markets. The theory of interest rate determination, monetary policy, and fiscal policy. Prerequisite: BA 507.

BA 552 INVESTMENT MANAGEMENT. (3) Selection and management of a portfolio, based on carefully-evaluated probabilities and sound techniques of security analysis. Prerequisite: BA 507 or its equivalent.

BA 554 FINANCIAL PLANNING. (3) Planning of personal and business affairs. Includes financial planning techniques for cash budgeting, long-term investments, and long-term financing. Prerequisites: BA 513, 516.

BA 555 CONTROLLERSHIP. (3) The planning and control function, utilizing the case approach. Prerequisites: BA 513, 514, 516.

BA 556 CONTEMPORARY PROBLEMS IN ACCOUNTING AND FINANCE. (3) A timely and relevant coverage of problems frequently encountered by business organizations and their executives and employees in the areas of accounting and finance. Prerequisite: BA 513.

BA 561 MARKETING MANAGEMENT. (3) Application of marketing concepts and theory to actual situations via case method. Individual reports and presentations. Prerequisite: BA 515 or permission of instructor.

BA 562 MARKETING RESEARCH. (3) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. Prerequisite: BA 515 or permission of instructor. (Ps 553).

BA 563 INDUSTRIAL MARKETING. (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. Prerequisite: BA 515 or permission of instructor.

BA 564 CONSUMER BEHAVIOR THEORY. (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. Prerequisite: BA 515 or permission of instructor.

BA 565 ADVERTISING. (3) The role of advertising in the marketing process. The advertising campaign, its creative and media components. The decision processes. Case method. Prerequisite: BA 515 or permission of instructor.

BA 566 MARKETING AND THE LAW. (3) Statutory and case law as each affects marketing decision-making. Sales contracts, warranties, transfer of the title, remedies under U.C.C.
BA 567 RETAIL STRATEGIES. (3) Examination of the conceptual and operational considerations surrounding the formulation of strategic plans for institutions in the retail sector. Prerequisite: BA 515 or permission of instructor.

BA 569 MARKETING MODELS. (3) Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: BA 515 or permission of instructor.

BA 570 SEMINAR: CONTEMPORARY MARKETING ISSUES. (3) Current developments in marketing as related to social issues. Consumerism, ecology, social responsibility, ethical issues, and governmental roles. Prerequisite: BA 515 or permission of instructor.

BA 575 MARKETING COMMUNICATIONS. (3) Fundamental behavioral and communications concepts upon which to build a sound marketing communications program. Prerequisite: BA 515.

BA 576 SEMINAR IN ADVERTISING. (3) This course is designed to allow students to read and discuss several of the classic books written on advertising by famous practitioners. Prerequisite: BA 565 or advertising experience.

BA 600 EXECUTIVE PRACTICES. (3) Techniques for handling complicated human relations situations. Discussion centers around behavioral readings and their application to actual case situations. Prerequisite: BA 514.

BA 601 MANAGEMENT PLANNING. (3) The planning function of management. Intermediate and long-range planning. Prerequisite: BA 514.

BA 602 MANAGEMENT INFORMATION SYSTEMS. (3) Design and analysis of information systems for management. Realtime MIS, planning and evaluation, managerial aspects, and the classical theories are explored. Student project. Prerequisite: IS 100 or its equivalent.

BA 603 MATERIALS MANAGEMENT. (3) The materials function in an industrial firm as an integrated activity. Inventory, purchasing, and traffic operations, with a discussion of objectives and measurements. Prerequisite: BA 514.

BA 604 PRODUCTION CONTROL. (3) Advanced production and inventory control concepts and methods. Functions served by inventories. Recommended prerequisite: BA 506 or its equivalent.

BA 605 QUALITY CONTROL. (3) Technical, analytical, and managerial knowledge in a statistical context. The economics of cost, organizational impact, and the engineering function. Recommended prerequisite: BA 506 or its equivalent.

BA 606 SMALL BUSINESS OPERATION. (3) Organization, location, management, finance, production and marketing problems of small business are studied. Lecture and case method. Prerequisite: BA 514.

BA 607 SEMINAR: APPLIED INDUSTRIAL MANAGEMENT TECHNIQUES. (3) Interdisciplinary. Solution of industrial management problems. Prerequisite: BA 604 or its equivalent.

BA 608 DATA BASE DESIGN. (3) Database systems and data structures are explored from a selection point of view. A class project implementing a data base is involved. Prerequisites: BA 602, IS 100 and programmer/analyst experience.

BA 609 MANAGERIAL ASPECTS OF MIS. (3) Planning and evaluating the feasibility of management information systems (MIS); controlling and organizing aspects of management information systems. Prerequisites: BA 602 and IS 100.

BA 610 PROBLEMS OF LABOR. (3) An analysis of labor-management problems through the use of the "Incident Process." Prerequisite: BA 514.
BA 611 **ADVANCED BUSINESS COMMUNICATIONS.** (3) Fundamentals of executive written and oral communication skills. Prerequisite: BA 514.

BA 612 **SEMINAR: COLLECTIVE BARGAINING.** (3) The historical development of collective bargaining. Problems that arise in the day-to-day administration of the labor-management agreement. Prerequisite: BA 514. (Ec 612).

BA 613 **PERSONNEL AND THE LAW.** (3) The historical development, current status, and economic implications of laws enacted by various levels of government to protect the worker's basic needs in our society. Prerequisite: BA 514.

BA 614 **MANAGEMENT OF THE PERSONNEL FUNCTION.** (3) Selecting, utilizing, and developing human resources in view of the total organization. Interpersonal communication processes. Prerequisite: BA 514.

BA 615 **PERSONNEL SELECTION AND DEVELOPMENT.** (3) Principles underlying sound practices in personnel selection, training and development. The development of programs in these areas. Prerequisite: BA 514.

BA 616 **PSYCHOLOGY OF JOB STRESS.** (3) The causes of job stress are studied in an industrial work environment, and solutions to relieve stress on the job are examined. Prerequisite: BA 514.

BA 620 **QUANTITATIVE DECISION-MAKING.** (3) Strategies of decision-making, cost of information, revision of decisions, decision trees, theory of utility, and evaluation of competing alternatives. Prerequisite: BA 512.


BA 622 **OPTIMIZATION I: LINEAR AND INTEGER PROGRAMMING.** (3) Topics covered include the simplex and dual simplex algorithms, duality, sensitivity analysis, and integer programming. Prerequisite: BA 512.

BA 623 **OPTIMIZATION II: NON-LINEAR AND DYNAMIC PROGRAMMING.** (3) Topics covered include constrained and unconstrained optimization techniques. Kuhn-Tucker conditions, Quadratic Programming, discrete and continuous dynamic programming. Applications to business problems will be emphasized. Prerequisite: BA 512.

BA 624 **APPLICATION OF OR TECHNIQUES.** (3) Business cases will be used to illustrate various areas of Operations Research, such as linear and integer programming, inventory control, queuing theory, decision theory, and simulation. Prerequisite: BA 512.

BA 625 **SURVEY SAMPLING IN BUSINESS.** (3) Phases involved in survey research. Student research project. Prerequisite: BA 512.

BA 626 **APPLIED STATISTICAL ANALYSIS.** (3) Test of hypotheses, estimation, models, design of experiments, regression analysis, and non-parametric statistics. Prerequisite: BA 512.

BA 629 **SEMINAR IN QUANTITATIVE METHODS: CURRENT TRENDS IN MANAGEMENT SCIENCE.** (3) A seminar that focuses on current quantitative methods topics of a theoretical and a practical nature. Prerequisite: BA 512.

BA 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS.** (3) The role of motivation in performance within organizations. Various concepts of motivation are studied, with emphasis on research findings. Prerequisite: BA 514. (Ed 644, Ps 644).
BA 645 **HUMANISTIC MANAGEMENT.** (3) Transactional Analysis, Gestalt Therapy, and Neurolinguistic Programming® form the basis of this communications competency course. Requires group participation, reading summaries, and journal-keeping. Prerequisite: BA 514 or permission of instructor.

BA 651 **DECISION SUPPORT SYSTEMS.** (3) The focus of this course is on manager/computer interaction in a semi-structured environment. A student project is required. Examination of the development from management information systems is pursued. Prerequisite: BA 602.

BA 652 **GRAPHICS FOR MIS.** (3) New trends and concepts in Computer Graphics for management information systems. Hardware, software. Student Project. Prerequisites: BA 602 and programming/analysis experience.

BA 653 **APPLICATION OF CURRENT TECHNIQUES TO MANAGEMENT INFORMATION SYSTEMS.** (3) Heuristic programming, search space optimization, problem simplification, and other state-of-the-art techniques related to information retrieval and management information systems. Prerequisites: BA 602, IS 100 and programming/analysis experience.

BA 654 **INFORMATION RESOURCES MANAGEMENT.** (3) Management and control of information in its many forms as a corporate resource. Data dictionary, data base administration, video disks, electronic mail, word processing, and office automation. Security techniques for hardware and software, management procedures, and detection methods. Prerequisite: BA 602.

BA 655 **TOPICS IN MANAGEMENT INFORMATION SYSTEMS.** (3) New trends and concepts in MIS not covered in other courses are presented. Prerequisite: BA 602.

BA 669 **PRACTICUM: PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT I.** (3) Fee: $100.00.

BA 670 **PRACTICUM: PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT II.** (3) Fee: $100.00.

BA 684 **PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT.** (3) (Ed 684).

BA 685 **ORGANIZATIONAL COMMUNICATION.** (3) A survey of intra, inter and group communication skills as applied to the organizational setting. Review of current research, as well as experiential exercises, will be emphasized. (Ed 685).

BA 690 **MANAGEMENT AUDITING AND CONSULTING.** (3) Examines the management consulting process and the management auditing process. Consulting projects are undertaken. Prerequisites: BA 511, 512, 513, 514, 515, and 516.


BA 695 **INDIVIDUAL READINGS AND RESEARCH.** (2-4) Open to especially qualified students with the consent of the chairman of the appropriate department.

BA 696 **SMALL BUSINESS CONSULTING.** (3) Student teams serve as consultants to small business enterprises. Site visitation, analysis of problems, and recommended solutions. Prerequisites: BA 511, 512, 513, 514, 515, and 516.
Economics

BA 698 **ENTREPRENEURSHIP.** (3) New ventures. Search, screening, evaluation, negotiation, and financing to initiate or purchase a company. Prerequisites: BA 511, 512, 513, 514, 515, and 516. For management, marketing, finance, or business economics concentrations.

BA 699 **BUSINESS ADMINISTRATION PROBLEMS.** (3) Opportunity to integrate core and concentration background with other graduate students through the use of selected cases. Prerequisites: BA 511, 512, 513, 514, 515, and 516.

The following Information Systems courses are the ONLY undergraduate courses that may be taken for graduate credit: IS 352, IS 354, IS 356, IS 357, IS 358, and IS 359.

**Economics (Ec) and Industrial Relations (IR)**

*Staff:* DR. KUZINA, chairman; DR. H. BRYANT, DR. DONNELLY, DR. HAILSTONES, MS. HARMON, DR. J. HAYES, DR. MARMO, DR. MASTRIANNA, MR. OLSON, DR. SCHULTZ, DR. WEINBERG, DR. ZIMMERMAN

*Assisted by:* MR. BUEHLER, DR. FREIBURG, MS. GUBSER, DR. HEHMAN, MR. LENT, MR. ROTHWELL, DR. WEBB

**Economics (Ec)**

**Lower Division Courses**

Ec 101 **MACROECONOMIC PRINCIPLES.** (3) Economic activity of the economy as a whole. Topics covered include national income, inflation, unemployment, interest rates and economic stability.

Ec 102 **MICROECONOMIC PRINCIPLES.** (3) Market forces of supply and demand in allocating the nation's resources and securing efficiency in their use. Economic behavior of consumers, firms, and resource owners. Prerequisite: Ec 101.

**Upper Division Courses**

Ec 200 **MICROECONOMIC ANALYSIS.** (3) A thorough study of consumer behavior and market demand, production, costs, the theory of the firm, and competition under different market structures. Prerequisite: Ec 102.

Ec 201 **MACROECONOMIC ANALYSIS.** (3) Foundations of understanding GNP, inflation, unemployment, and economic growth. Controversies in modern macro theory. Prerequisites: Ec 101, 102.

Ec 202 **HISTORY OF ECONOMIC THOUGHT.** (3) Ideas and theories of major contributors to economic thought. Economic schools and movements. Prerequisites: Ec 101, 102.

Ec 220 **COMPARATIVE ECONOMIC SYSTEMS.** (3) Study of systemic properties of alternative capitalist, socialist, traditional, and utopian economies. Prerequisites: Ec 101, 102.

Ec 222 **ECONOMETRICS.** (3) The construction and testing of economic models. Emphasis will be given to linear regression techniques, special problems in estimating economic relationships, and interpretation of results. Prerequisites: Ec 101, 102, Mt 146 or BA 270.

Ec 230 **ECONOMICS AND PUBLIC POLICY.** (3) Examination of policies to promote competition. Analysis of mergers, patents, and restrictive business practices. Study of regulated industries and public enterprise. Prerequisite: Ec 102.
ECONOMICS.

Economics

Ec 235 **ENERGY ECONOMICS.** (3) The relationship of energy to the economy. Examination of alternatives including petroleum, coal, nuclear, solar, and conservation. Non-majors interested in energy are encouraged to take this course. Prerequisite: Ec 102.

Ec 240 **ECONOMIC GEOGRAPHY.** (3) Location of economic activity and factors affecting or affected by such location. Economics of natural resources. Prerequisite: Ec 101, 102.

Ec 245 **URBAN ECONOMICS.** (3) Interdisciplinary. Tools for problem solving. Forces leading to urbanization and differing rates of growth in urban areas. Affluence, equity, and stability are investigated. Prerequisite: Ec 102.

Ec 250 **MONEY AND BANKING.** (3) Principles of money, credit, and banking, including monetary theory and functions of a central bank, such as the Federal Reserve System. Prerequisite: Ec 101. (FI 250).

Ec 255 **AMERICAN ECONOMIC HISTORY.** (3) Growth and development of the U.S. economy with analysis of the effects of physical environment and public policies on various economic sectors. Prerequisites: Ec 101, 102.

Ec 260 **ECONOMICS OF DEVELOPING COUNTRIES.** (3) Analysis of the main problems of developing countries, methods to generate growth and development, and the call for a New International Economic Order. Prerequisite: Ec 101, 102.

Ec 323 **INTRODUCTION TO MATHEMATICAL ECONOMICS.** (3) Synthesis of mathematical techniques and economic theory. Micro and macroeconomic theory from a mathematical perspective, linear programming, and dynamic models. Prerequisites: Ec 200, 201, Mt 150.

Ec 325 **INDUSTRIAL ORGANIZATION.** (3) Basic conditions, market structures, conduct, and performance of American industry. Public policy as related to the problems of bigness and monopolization. Prerequisite: Ec 200.

Ec 335 **PUBLIC FINANCE.** (3) Role of government in the economy and an analysis of the principles of government expenditure and taxation. Prerequisite: Ec 200.

Ec 344 **ECONOMICS OF INTERNATIONAL RELATIONS.** (3) Course in international economics for non-economics majors. Prerequisites: Ec 101, 102.

Ec 345 **INTERNATIONAL ECONOMICS.** (3) Basis for trade between nations. Barriers to trade. Balance of payments. Exchange rate determination. Monetary and fiscal policies in an open economy. Prerequisite: Ec 200.

Ec 360 **CURRENT ECONOMIC PROBLEMS.** (3) Current problems: labor, monetary and fiscal policy, debt management, social security, legislation and public regulation. Prerequisites: Ec 200, 201.

Ec 377 **MANAGERIAL ECONOMICS.** (3) Microeconomic analysis for decision-making within the business firm. Emphasis on forecasting, demand and cost estimation, pricing techniques. Prerequisites: Ec 200, Mt 150.

Ec 395 **SEMINAR: ECONOMICS.** (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: Ec 200, 201.

Ec 397 **TUTORIAL COURSE.** (2-3) Special reading and study for advanced students.

Graduate Courses

Ec 527 **MULTINATIONAL TRADE AND FINANCE.** (3) (BA 527).

Ec 530 **MANAGERIAL ECONOMICS.** (3) (BA 530).
Industrial Relations

Ec 532 BUSINESS FORECASTING. (3) (BA 532).
Ec 535 BUSINESS AND PUBLIC POLICY. (3) (BA 535).
Ec 538 MANAGEMENT AND SOCIAL REGULATION. (3)
Ec 612 SEMINAR: COLLECTIVE BARGAINING. (3) (BA 612).

Industrial Relations (IR)

Upper Division Courses

IR 210 HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of cause and remedies of unemployment. Prerequisites: Ec 101, 102. (Mg 210).
IR 300 LABOR RELATIONS. (3) Issues and problems involved in union-management relations. Evaluation of collective bargaining as a method for resolving labor disputes in our economic system.
IR 310 CURRENT LABOR PROBLEMS. (3) Analytical framework for examining labor problems. Application to important problems facing the labor movement today. Prerequisite: IR 210.
IR 311 HISTORY OF THE LABOR MOVEMENT. (3) Worker's movements in the U.S.: comparison of characteristics of different organizations from the Colonial period to the present.
IR 312 PROBLEMS OF MANAGEMENT AND LABOR. (3) (Mg 312).
IR 313 LABOR LAW. (3) Development of labor law in the U.S.: emphasis on laws treating injunctions, worker combinations, labor-management relations, internal union affairs, and working conditions.
IR 317 LABOR UNIONS. (3) The role of labor unions in American society.
IR 330 INDUSTRIAL PSYCHOLOGY. (3) (Ps 251, Mg 321).
IR 395 CASES AND PROBLEMS IN PERSONNEL RELATIONS. (3) Case studies in selected personnel problems with emphasis on the application of relevant behavioral science research and concepts.
IR 397 TUTORIAL COURSE. (2-3) Contents to be determined according to the needs of the student.

Approved Electives: Upon consultation with, and approval of, the Department.
Management (Mg) and Information Systems (IS)

Staff: DR. JERRY ANDERSON, chairperson; MR. BIALAC, DR. CAMEALY, DR. CLARK, DR. EVERT, DR. GEEDING, MS. HANSEN, MR. KING, DR. KLEKAMP, DR. RUWE, MS. TATHAM, DR. THIERAUF

Assisted by: MR. BROXTERMAN, DR. CRABLE, DR. COLLIGAN, DR. COSGROVE, MR. DELABAR, MR. GARTNER, MR. GEHNER, MR. GREGORY, DR. KLEE, DR. HERBOLD, MR. HONKOMP, MR. LOHAUS, MR. McTIGUE, MR. MEEKER, MR. MORAN, MR. NIEHAUS, DR. QUATMAN, MR. RECKER, MR. REYNOLDS, MR. SAPP, MR. SCHUMACHER, DR. SMITH, MR. STONE, MR. TOOTH, MR. TRUNNELL, MR. VABIĆ, DR. WEISSBUCH, MR. WINTZ, MR. WOOD

Management (Mg)

Lower Division Course

Mg 100 PRINCIPLE OF MANAGEMENT. (3) The process of management applicable to forms of business organization. Emphasis on planning, organizing, directing, and controlling. Essentials of the production function are covered.

Upper Division Courses

Mg 210 HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of cause and remedies of unemployment. (IR 210).

Mg 300 LABOR RELATIONS. (3) Issues and problems involved in union-management relations. Evaluation of collective bargaining as a method for resolving labor disputes in our economic system. Prerequisite: Mg 100. (IR 300).

Mg 301 FINANCIAL MANAGEMENT. (3) Major problems and methods used in financing business enterprise from the viewpoint of business management. Prerequisites: Fi 255, Mg 100. (Fi 301).

Mg 302 PRODUCTION MANAGEMENT. (3) Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisites: Mg 100, Mt 149, 150, Mg 331.

Mg 304 SMALL BUSINESS MANAGEMENT. (3) Marketing, production, finance, organization and location problems of small business organizations. Prerequisite: Mg 100.

Mg 310 ORGANIZATION BEHAVIOR. (3) Current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized. Prerequisite: Mg 100.

Mg 311 RESEARCH MANAGEMENT. (3) Application of research methods to selected managerial problems. Prerequisite: Mg 100.

Mg 312 CONTEMPORARY MANAGEMENT ISSUES. (3) Recent issues facing contemporary managers. Topics include minority hiring, consumer protection, energy conservation, pollution control, ecological constraints, and government regulations. Prerequisite: Mg 100. (IR 312).

Mg 313 MANAGERIAL METHODS. (3) Managerial techniques for optimum information flow and effectiveness: process charting, work and time measurement, performance rating, work sampling, and paperwork procedures. Prerequisite: Mg 100.
Management

Mg 315 **ORGANIZATIONAL THEORY AND DESIGN.** (3) Theory and design of organizational structures as applied to the business firm. Prerequisite: Mg 100.

Mg 316 **COMPLEX ORGANIZATIONS.** (3) Treats the theory and practice of complex organizations in business, education, and government. Prerequisite: Mg 100. (So 316).

Mg 319 **ADVANCED MANAGEMENT SEMINAR.** (3) Principles of humanistic approaches to management thought. Transactional Analysis. Prerequisite: Mg 100.

Mg 321 **INDUSTRIAL PSYCHOLOGY.** (3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon the human element in American Industry. Prerequisite: Mg 100. (Ps 251, IR 330).

Mg 322 **PROBLEMS OF MANAGEMENT AND LABOR.** (3) Depicts the interactions of management problems with labor and conflict resolution. Prerequisite: Mg 100.

Mg 323 **BUSINESS COMMUNICATIONS.** (3) Essentials of communicating effectively in business with accent on written and oral communication skills. Prerequisite: Mg 100.

Mg 324 **ACCOUNTING FOR MANAGEMENT DECISIONS.** (3) Treats the analysis of accounting and financial information to assist in effective managerial decision-making. Prerequisites: Ac 100, 101, Mg 100.

Mg 325 **MANAGEMENT CONTROL THROUGH ACCOUNTING.** (3) A study of the uses of internal accounting control procedures from a managerial perspective. Prerequisites: Ac 101, Fi 255. (Fi 325).

Mg 326 **PURCHASING.** (3) Principles and practices of purchasing. Techniques in making decisions on quality and quantity at the right prices. Price policies, sources of supplies, and standards of performance. Prerequisite: Mg 100.

Mg 327 **PUBLIC-SECTOR MANAGEMENT.** (3) Management of public-sector organizations as tempered by governmental constraints; i.e., lack of profit motive, civil service restrictions, traditionalism, new public awareness, and productivity measures. Prerequisite: Mg 100.

Mg 330 **INTRODUCTION TO QUANTITATIVE METHODS.** (3) Algebra, vectors, matrix algebra, differentiation, integration, and differential equations relevant to economic management. (BA 502).

Mg 331 **APPLIED QUANTITATIVE METHODS FOR BUSINESS.** (3) Application of higher mathematics to recurring business problems. Basic operations research techniques are covered. Prerequisites: Mt 149, 150. (Fi 331, Ml 331).

Mg 342 **MANAGERIAL ASPECTS OF DATA PROCESSING.** (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of computer systems. Programming project management. Prerequisite: Is 100 or equivalent (IS 342).

Mg 350 **SYSTEMS ANALYSIS AND DESIGN.** (3) Structural analysis and design of computer information systems. Project control and system evaluation through simulation. Prerequisite: Is 100 or equivalent. (IS 350).

Mg 395 **CASE STUDIES IN MANAGEMENT.** (3) Case studies involving conventional management practices applied to organizations. Orientation is toward planning, organizing, directing, and controlling production, personnel, and other management concerns. Prerequisite: Mg 100.

Mg 397 **TUTORIAL COURSE.** (3) Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.

Approved Electives: Upon consultation with, and approval of, the Department.
Information Systems (IS)

Lower Division Courses

IS 100 PRINCIPLES OF DATA PROCESSING. (3) Systems and the concepts of data processing. The student will gain actual experience using the "BASIC" language in a time-sharing mode. Not both IS 100 and CS 124 may be taken for credit.

IS 200 DATA ORGANIZATION. (3) Advanced business data processing, application, design, and its implementation. Theory of structure—first half; application—second half. Prerequisite: IS 100.

Upper Division Courses

Note: IS 100 is a prerequisite for all upper division courses. IS 200 is required for all majors.

IS 331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Basic operations research techniques: linear programming, transportation model, decision theory, PERT, and simulation. Prerequisites: Mt 149, 150.

IS 338 NUMERICAL COMPUTATIONS. (2-3) Introduction to scientific applications of the computer. Computer arithmetic and error analysis. Computational aspects of function evaluation, non-linear equations, approximation of functions, numerical differentiation, integration, and solution of differential equations. Prerequisites: IS 100, Mt 150. (CS 138).

IS 342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of computer systems. Programming project management. Prerequisite: IS 100 or its equivalent. (Mg 342).

IS 350 SYSTEMS ANALYSIS AND DESIGN. (3) Structured analysis and design of computer information systems. Project control and system evaluation through simulation. Prerequisite: IS 100 or its equivalent. (Mg 350).

IS 352 DATA PROCESSING INFORMATION SYSTEMS. (3) The Project Team approach to design and analysis of information systems. Documentation and coding. Walk through and programming productivity techniques. Prerequisite: IS 350. (CS 352).

IS 354 DISTRIBUTED PROCESSING SYSTEMS. (3) Evolution of distributed processing in the business environment, feasibility, implementation and case studies. Networking. Prerequisite: IS 350.

IS 356 DATA STRUCTURES. (3) Linear lists, strings and arrays; trees and graphs; storage structures, allocation and collection, symbol tables, sorting, and formal data structures. Prerequisites: IS 100, 360. (CS 325).

IS 357 INTRODUCTION TO DATA COMMUNICATIONS. (3) Data communication fundamentals that will be studied include: telephone, teleprocessing, electronic funds transfer, word processing, electronic mail, and teleconferences. Prerequisite: IS 100.

IS 358 PRINCIPLES OF DATA BASE MANAGEMENT. (3) Data base design for information storage and retrieval. The logical and physical organization, schemas, IMS, CODASIL and relational data bases. Prerequisite: IS 350. (CS 358).

IS 359 COMPUTER AUDITING. (3) Auditing around and through the computer.

IS 360 ASSEMBLER LANGUAGE. (3) Features of assembler language programming. Data representation, number systems, data movement, arithmetic, program control. Prerequisite: IS 100 or its equivalent or consent of instructor. (CS 255).
Information Systems

IS 361 ASSEMBLER LANGUAGE PROJECT. (2) Substantial programming project in assembler language. Prerequisite: IS 360. (CS 256).

IS 364 COBOL PROGRAMMING. (3) Structured COBOL computer programming language with business applications. File manipulation. Prerequisite: IS 350. (CS 152).

IS 365 ADVANCED COBOL PROGRAMMING. (3) The COBOL file processing environment. Sequential files—sorting, merging, appropriate utilities. Indexed sequential files—sequential access, random access, changing keys; the add, change, delete process. Prerequisite: IS 364. (CS 252).

IS 368 FORTRAN PROGRAMMING. (3) FORTRAN computer programming language. Writing programs and computer experiences in business. Prerequisite: IS 100 and secondary math proficiency. (CS 113).

IS 395 SPECIAL TOPICS IN INFORMATION SYSTEMS. (3) New trends and concepts in information systems not covered in other courses will be offered. Prerequisite: permission of instructor.

IS 397 TUTORIAL COURSE. (2-3) Research in scholarly journals on information systems. May also be used for a Senior Project. Open only to students with the consent of the Department Chairman.

Approved Electives: Junior and senior majors may take graduate-level courses (BA 600 and above) with permission of the Chairman and instructor.

As Professor of Education and former Assistant Dean of the Graduate School, Dr. James P. Gaffney has been teacher, administrator, and counselor, making him a valuable part of the total educational force at Xavier.
Marketing (Mk)

Staff: DR. TREBBI, chairman; DR. ADLER, MR. T. HAYES, DR. KUMPF, DR. SCHERTZER, DR. VANKIRK, DR. WEBB, DR. MAYANS

Assisted by: MR. BRUNDAGE, MR. HATTENBACH, MR. HOLT, MR. HULL, MR. LANDSMAH, MS. LEWIS, MR. PITCAIRN, MR. SHORT, MR. SITTASON, MR. THOMAS

Lower Division Course

Mk 100 PRINCIPLES OF MARKETING. (3) Marketing concepts, functions, institutions, and policies. Marketing's role in society. Prerequisite for upper division courses unless waived by Department Chairman.

Upper Division Courses

Mk 202 MARKETING RESEARCH. (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: BA 270.

Mk 204 MARKETING MANAGEMENT. (3) Marketing planning. The coordination of all aspects of marketing. Efficient utilization of resources. Prerequisites: Mk 202 and three hours of upper division marketing.


Mk 219 BROADCAST STATION SALES. (3)

Mk 220 INTERNATIONAL MARKETING. (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare.

Mk 230 RETAILING MANAGEMENT. (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study.

Mk 231 ADVANCED CONCEPTS IN RETAILING. (3) Study of retailing beyond the introductory course. Special emphasis on buying and merchandising functions. Prerequisite: Mk 230 or permission of instructor.

Mk 235 DISTRIBUTION CHANNELS. (3) Macro-marketing institutions and channels. Time, place, and behavioral concepts in the channels of distribution.

Mk 245 MARKETING COMMUNICATIONS. (3) Fundamental behavioral and communication concepts used in developing effective communications programs.

Mk 250 PROMOTION—ADVERTISING. (3) Creative and institutional aspects of advertising and their relationship to market and product attributes. Effects of legal and social environment.

Mk 261 PROMOTION—SELLING. (3) Dynamics of selling and techniques of persuasive leadership. Sales management. Selection, training, compensation, and analysis of sales force activities.

Mk 270 UNDERSTANDING THE CONSUMER. (3) Marketing strategy implicating consumer behavior. Anthropology, economics, psychology, sociology, and the consumer. Prerequisite: Mk 202.

Mk 280 PHYSICAL DISTRIBUTION ANALYSIS. (3) Examines the logistics problems of the firm as a part of the overall distribution process. The quantitative approach to distribution control.

Marketing

Mk 295 **TUTORIAL COURSE.** (2-3) Research, meetings, and attendance at scheduled lectures as determined by the advisor. Prerequisite: permission of the Chairman.

Mk 299 **MARKETING PLANNING AND ANALYSIS.** (3) Application of marketing principles to case analysis. Prerequisites: Mk 204 and six hours of upper division courses in marketing.

Mk 331 **APPLIED QUANTITATIVE METHODS FOR BUSINESS.** (3) (Fi 331, Mg 331).

Approved Electives: Upon consultation with, and approval of, the Department.

**Center for Management and Professional Development**

*Staff:* DR. DANIEL W. GEEDING, Institute Director; ALICE RASTANI, Associate Director; FR. RAPHAEL DOMZALL, Director of Religious Programs; SUE BENSMAN and ABBY BYLAND, Program Coordinators

*Assisted by:* MEMBERS OF THE XAVIER UNIVERSITY FACULTY AND RESOURCE PERSONNEL FROM LOCAL AND NATIONAL SOURCES

Numerous short-term seminars and workshops as well as consultation and conference planning are offered by the University through the Center for Management and Professional Development.

The new Center for Management and Professional Development provides the participants of workshops like this one with comfortable and spacious seminar rooms. Each such room in this one million dollar facility is equipped with an individual sound system, retractable electric screens, and connections to Xavier's on-line computer system. A full range of audiovisual equipment and a hook-up to the T.V. studios aid the faculty in offering seminars on Sales Skills, Time Management, Effective Writing Skills, Creative Problem Solving, CPA Review, and other programs designed to enhance a professional career.
Departments—
Edgecliff College

The Arabic numeral in parentheses following course titles indicates the number of semester credit hours which the course carries.

**ART (Ar)**

*Staff:* SR. BEIERSDORFER, chairman; SR. ALLGEYER, MR. KENNEDY, MS. MACMILLAN, BR. PRYOR, MR. SCHMIDT, MS. TRAGESER, MS. WEHLING

*Assisted by:* MR. DOUGHERTY

*Permanent Artist-in-Residence:* PAUL CHIDLAW

Introductory courses, or equivalent with permission of the instructor, are prerequisites for all advanced courses.

**Studio Courses**

The following listings are studio courses in which two hours laboratory activities per week are required for each hour of credit. An open studio policy facilitates flexibility in scheduling in some courses. Provision is made for advance study in all of these areas, so that students may enroll for a course repeatedly until the maximum number of hours is reached. Experiences for advanced students are developed according to individual capacities to comprehend problems and solutions; credit hours may be doubled with the permission of the specific instructor during a given semester.

**Ar 100**  
**SEMINAR: FRESHMAN ART MAJORS.** (1) An inquisition into the role of art in human life and society generating an experience in the "energosis" of ideas through the study of the integral union of person, process, and product with the hope of providing a foundation for an integrated way of life. Corequisite: Ar 101, unless exemption has been granted.

**Ar 101**  
**DESIGN.** (2) An experience in visual relationships for art majors in which the elements and principles of design are discovered through multi-sensory investigation. Corequisite: Ar 100, unless exemption has been granted.

**Ar 102**  
**DRAWING.** (3) A development of the fundamentals — concepts and skills — of drawing through a broad range of aesthetic expressions and multi-sensory exercises.

**Ar 103**  
**PAINTING.** (3-9) An experience in totality through the language of form and color with the exploration of the material as primary concern using oils, polymers, mixed media; watercolor is offered every third year.

**Ar 104**  
**PRINTMAKING.** (3-12) An introductory study into intaglio, planographic, relief, or screen printing.

**Ar 105**  
**SCULPTURE.** (3) An introductory study into the artistic uses of three-dimensional model building.

**Ar 106**  
**WEAVING.** (3) An introductory course which enables a student to obtain the technical knowledge required to plan weaving projects, to warp floor looms and to weave, stressing techniques, good craftsmanship, and aesthetic values related to the use of fibers. (CM 106).
Art

Ar 107 **BATIK.** (3) A study of the wax resist technique in textile decoration including familiarization with waxes, tools, tjantings, brushes, resists, and dyes and encouraging exploration of other adaptable materials such as paper, wood, silk, crayons, and discharge techniques.

Ar 108 **ENAMELING.** (3) An acquaintance with the principal enameling techniques of sgraffito, cloisonne, champleve through the use of wires, foils, metals, and silica in the firing process.

Ar 109 **CERAMICS.** (3) A foundation in hand-forming and wheel-throwing techniques with an introduction to methods of decorating, glazing, and firing clay.

Ar 111 **CONCEPTUAL/VISUAL RELATIONSHIPS.** (2) An experience in the practical application of color theory and design principles, especially adapted for students' majoring in fields outside of art.

Ar 202 **ADVANCED DRAWING.** (3-21) Advanced studies emanating from a thorough investigation of both human and natural anatomy, abstraction as a conceptual/visual process, media, and thematic variations.

Ar 203 **ADVANCED PAINTING.** (3-21) Advanced studies in oils, polymers, mixed media, or watercolors with the primary concern being to develop a personal visual expression after appropriate experimentation with different structures and techniques.

Ar 204 **ADVANCED PRINTMAKING.** (3-21) The continuing investigation of an area begun in Ar 104.

Ar 205 **ADVANCED SCULPTURE.** (3-21) A continuation of experiences in sculpture, emphasizing personal meaning and permanent materials.

Ar 206 **ADVANCED WEAVING.** (3-21) Experiences which allow students to develop the knowledge of more difficult weaving and interlacement systems and to study in greater depth, while improving techniques studied through awareness. (CM 206).

Ar 207 **ADVANCED BATIK.** (3-21) An investigation of varied resist methods and direct dyeing, combined with in-depth exploration of more varied modes of presentation including embroidery, quilting, stuffing, trapunto, and three-dimensional objects.

Ar 208 **ADVANCED ENAMELING.** (3-21) Attention is given to the creation of larger two-dimensional wall pieces with additional opportunities for in-depth exploration of techniques already mastered, as well as new techniques and materials, i.e., cutting, tooling, high firing, layering, underglaze, crackle enamels, and ceramic pencils.

Ar 209 **ADVANCED CERAMICS.** (3-12) An advanced approach with a concern for perfection in ceramic form, glaze application, and formulation, as well as special projects determined by the teacher and student where appropriate.

Professional Courses

The following courses are professional courses for students seeking a career. They combine lecture, studio work, and practice in their respective fields.

Ar 220 **INTRODUCTION TO ART THERAPY.** (3) An overview of the history, theoretical basis, and current practice of art therapy including field trips to community agencies.

Ar 221 **ELEMENTARY SCHOOL ART.** (2-4) An investigation of the philosophy, development and methods of art education with opportunity for two- and three-dimensional studio experience.
Ar 223  **SECONDARY SCHOOL ART.** (3) An evaluation of the rationale, behavioral objectives, and organization of art activities at the secondary level.

Ar 225  **NEEDLE ARTS.** (3-9) (CM 225).

Ar 229  **FASHION DESIGN.** (4) (CM 229).

Ar 241  **INTERIOR DECORATION AND DESIGN I.** (3) (CM 241).

Ar 242  **INTERIOR DECORATION AND DESIGN II.** (3) (CM 242).

Ar 243  **ART THERAPY SEMINAR/PRACTICUM.** (3-12) Student placement in community agencies, with bi-weekly discussion seminar, to provide on-site experience in planning and conducting art therapy programs under the guidance of a registered art therapist.

Ar 341  **INTERIOR DECORATION AND DESIGN III.** (CM 341).

Ar 342  **INTERIOR DECORATION AND DESIGN IV.** (CM 342).

**Lecture Courses**

The following listings are lecture courses supplemented with slides, films, tours, and related experiences. They do not require studio activities.

Ar 130  **ART OF THE 20TH CENTURY.** (2-4) An analysis of changes within the visual arts planned for both art majors and non-art majors.

Ar 131  **HISTORY OF ART I.** (3) A survey of the art of the Ancient World including Prehistoric forms and those of the Ancient Near East, and the Egyptian, Aegean, Grecian, Early Christian, and Byzantine periods.

Ar 132  **HISTORY OF AMERICAN ART.** (3) A study of the history of American Art from the post-Civil War Period to the present with emphasis on the significant styles originating in the 20th century.

Ar 160  **HUMANITIES I.** (3) Art, music, and literature from Prehistoric times to the Middle Ages, using feature-length films to dramatize cultural patterns.

Ar 231  **HISTORY OF ART II.** (3) A survey of art of the Middle Ages including Early Medieval, Romanesque, and Gothic styles.

Ar 260  **HUMANITIES II.** (3) Art, music, and literature from the Renaissance to the 20th century, using feature-length films to dramatize cultural patterns.

Ar 261  **MEDIA AESTHETICS.** (3) Basic principles of art and music appreciation, using recorded musical examples, slide-illustrated lecture-discussions, feature-length films, and museum visits.

Ar 331  **HISTORY OF ART III.** (3) A survey of Renaissance and Baroque Art in Italy, Spain, and Northern Europe.

Ar 360  **HUMANITIES III.** (3) *Selected topics* in art, music, and literature from Prehistoric times to the Middle Ages using slide-illustrated lecture-discussions and museum visits.

Ar 431  **HISTORY OF ART IV.** (3) A survey of eighteenth century Rococo, Romanticism, Realism, Impressionism, Post-Impressionism, and 20th century styles.

Ar 434  **THE MUSEUM IN MODERN SOCIETY.** (2-6) A study for art majors and non-art majors of the development, function, and problems associated with the operation of Fine Art Museums — especially those in Cincinnati, Ohio.

Ar 436  **ART THERAPY SURVEY.** (3-6) Advanced course in art therapy exploring goals and techniques with various client populations including emotionally-disturbed adults, geriatrics, children, and adolescents.
**Art**

**Ar 460** HUMANITIES IV. (3) Selected topics in art, music, and literature from the Renaissance to the 20th century using slide-illustrated lecture — discussions and museum visits.

**Required Senior Courses**

The following listings are required of senior art majors and designed especially for them, although non-art majors may enroll in Ar 440.

**Ar 440** CRITICISM (2) Study and discussion of historically important theories of beauty and their application to contemporary art movements.

**Ar 441** SEMINAR: SENIOR ART MAJORS (2) Experiences and relationships involving the artist, community, and environment; acquaintance with record keeping, resume writing, slide portfolio development, gallery contracts, copywriting, and available grants.

**Ar 442** SENIOR CONCENTRATION. (3-6) An intense in-depth study of selected studio field. Students pursuing the art education or the history of art tracks may submit a written thesis; students pursuing the art therapy track may substitute off-campus internship experience, working under direction of a qualified art therapist. Specific faculty approval necessary.

**Ar 450** INDEPENDENT STUDY. (Credit to be arranged.) Problems related to department fields, although not specifically included in the catalogue, may be requested by the student and elected with the approval of the instructor.
Consumer Science (CM)

Staff: MRS. MARVIN, chairman; MRS. MALLOF, MRS. WESSEL

Lower Division Courses

CM 101 CULINARY ARTS. (3) Food selection and preparation. Includes basic nutrition, principles and methods of cooking, and sanitation in the kitchen.

CM 103 INTERNATIONAL FOODS. (3) Historical background of selected ethnic cultures and evolution of their menus. Planning, preparation, and serving of typical foods.

CM 106 WEAVING. (3-12) (Ar 106).

CM 110 INTERACTION OF COLOR. (2-24)

CM 121 STYLES, FASHION, AND THE INDIVIDUAL. (3) Introduction to the world of fashion and the styles of clothing prevailing in our society today. Sociological and psychological aspects of fashion. Individual fashion potential of the student.

Upper Division Courses

CM 201 CREATIVE MENU DESIGN AND FOOD PURCHASING. (3) Development of nutritious menus with visual and taste appeal. Purchasing of commodities for small families and quantity food purchasing for large groups or institutions.

CM 206 WEAVING. (3-12) (Ar 206).

CM 221 CLOTHING CONSTRUCTION. (3) Principles of pattern alteration and clothing construction techniques. Dressmaker tailoring.

CM 223 TEXTILE FIBERS. (3) Properties and characteristics of natural and man-made fibers. Emphasis on identification, selection, and care.

CM 224 TEXTILE CONSTRUCTION. (3) Identification of textile constructions; methods of dyeing, functional and aesthetic finishes.

CM 225 NEEDLE ARTS. (3-9) Basic courses are an introduction to the history, materials and techniques of needlework. Advanced courses include more intricate techniques. Emphasis on color and design. (Ar 225).

CM 229 FASHION DESIGN. (3) Basic principles of the flat pattern method of designing original apparel. A knowledge of clothing construction is not required. (Ar 229).

CM 241 HOUSING: EXTERIOR DESIGN AND INTERIOR SPACE. (3) History of architectural styles and the arrangement of exterior and interior space for family living; design principles; color, materials, and support systems. (Ar 241).

CM 242 INTERIOR DECORATION AND DESIGN. (3) Furniture arrangement and selection of materials for walls, ceilings, floors, and upholstery; lighting systems and window treatments. (Ar 242).

CM 305 PRINCIPLES OF NUTRITION. (3) For the student who seeks to understand the relationship of good nutrition to health maintenance and normal development of the human body.

CM 312 RESOURCES FOR MODERN LIFE STYLES. (3) Time, energy, and money management for households or institutions providing living quarters. Comparisons of goods, services, and commodities. Cost and care requirements of equipment.
Criminal Justice

CM 321 HISTORY OF FASHION. (3) History and study of the phenomenon of fashion with emphasis on apparel and accessories.

CM 323 TAILORING. (3) Comparative study of construction techniques with the application of principles of custom tailoring to coats and suits. Prerequisite: CM 221 or permission of instructor.

CM 324 GOURMET FOOD PREPARATION. (3) Advanced food preparation techniques of those planning careers as caterers or for personal use.

CM 327 SPECIAL PROBLEMS IN FOODS AND NUTRITION. (3) Research in the area of foods or nutrition. Required of general consumer science majors. Prerequisite: permission of instructor.

CM 328 SPECIAL PROBLEMS IN TEXTILES AND CLOTHING. (3) Research in the area of textiles and clothing. Required of fashion merchandising majors. Prerequisite: permission of instructor.

CM 329 FASHION MERCHANDISING. (3) Movement of fashion merchandise from the manufacturer to the consumer. Basic activities encountered as a professional in this area.

CM 341 HISTORY OF FURNITURE AND TEXTILES. (3) Traditional and contemporary furniture styles. Furniture arrangement and selection of appropriate textiles for interiors. (Ar 341).

CM 342 INTERIOR PRESENTATIONS FOR PROFESSIONALS. (3) Techniques and materials for upholstery, window treatments and client presentations. Prerequisite: Ar, CM 242. (Ar 342).

CM 352 FIELD EXPERIENCE. (3-6) Academic research will supplement the practical application of principles of consumer science through employment in a private or commercial institution or corporation. Prerequisite: permission of instructor.

Criminal Justice (CJ)

Staff: DR. RICHARDSON, director; JUDGE COLLINS, MR. DALLMAN, DR. ENDRES, MR. ENSIGN, MR. FARMER, MR. HAHN, MR. HARRINGTON, DR. MILLER, MR. OVERBERG, DR. PALMER, MR. PRATT

Lower Division Courses

CJ 101 INTRODUCTION TO CRIMINAL JUSTICE. (3) An overview of the legal basis of the criminal justice system and of its structures and functions. (SW101).

CJ 102 INTRODUCTION TO LAW ENFORCEMENT. (3) Overview of policing problems and procedures; legal and philosophical issues in law enforcement; organization and administration of police agencies.

CJ 110 AMERICAN GOVERNMENT. (3) Legal, behavioral, historic, and contemporary aspects of the American Political System. (Po 110).

CJ 167 INTRODUCTION TO SOCIAL WORK. (3) (SW 167).

Upper Division Courses

CJ 210 BASIC CONSTITUTIONAL LAW. (3) Principles; special reference to rights and obligations of various participants in the criminal justice system. Prerequisite: CJ 101.
CJ 221 JUVENILE JUSTICE IN A CHANGING SOCIETY. (3) Juvenile Court philosophy and practices; federal and state legislation; current trends and development of standards; alternatives to incarceration. Prerequisite: CJ 101.


CJ 232 CAPITAL PUNISHMENT: OTHER ISSUES IN PUNISHMENT. (3)

CJ 233 HUMAN DIGNITY IN THE HELPING PROFESSIONS. (2-3) An overview of humanistic approaches to the helping professions. Included are effective communications, emotional involvement, and development of professional interpersonal relationships. (Cr 488, Ed 488, Ps 488, So 488).

CJ 260 CURRENT ISSUES IN CRIMINAL JUSTICE. (3) Prerequisite: CJ 101. (SW 260).

CJ 265 CLASS AND CLASS CONFLICT. (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective. (So 265).

CJ 266 CRIME AND PERSONALITY. (3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (Cr 566, Ed 266, Ps 266).

CJ 268 OVERVIEW OF CONTEMPORARY CORRECTIONS. (3) Prerequisite: CJ 101. (SW 265).

CJ 276 PSYCHOLOGY OF DELINQUENCY. (2) Types and causes of juvenile delinquency together with brief case histories. (Cr 576, Ps 276, Ed 276).

CJ 281 RESEARCH METHODS IN CRIMINAL JUSTICE. (3)


CJ 291 PRACTICUM IN CRIMINAL JUSTICE. (3)

CJ 292 JUVENILE DELINQUENCY. (3) Multiple factors involved in delinquent behavior. Definition, extent, causation, and treatment. (So 292).

CJ 307 CHILD WELFARE. (3) (SW 307).

CJ 316 SOCIAL POLICY AND CONTEMPORARY ISSUES. (3) (SW 316).

CJ 318 TRENDS IN MODERN SOCIETY: RACE RELATIONS. (3) (SW 318).

Music (Mu)

Staff: DR. ROEHRRG, chairman

Assisted by: MS. BEEBE, MR. CAVALLY, SR. HYLAND, M. KEYMEL, MR. MERCER, MR. SORIANO

Lower Division Courses

Mu 100 BASIC MUSIC THEORY. (3) Study of basic concepts and elements of music theory. (Credits may not be applied toward a major in music.)

Mu 110 INTRODUCTION TO MUSIC. (3) Introduction to perspective listening and the elements of musical form and style.
Music

Mu 111 **MUSIC IN GENERAL CULTURE.** (3) Course is designed to develop an aesthetic appreciation of the role of music in the history of man.

Mu 121 **FUNDAMENTALS OF SCHOOL MUSIC.** (2) For classroom teachers. Basic elementary methods and materials for elementary grades.

Mu 122 **MUSIC IN THE ELEMENTARY SCHOOL.** (2) Intermediate level course. Focus upon creativity and curriculum design K - 8. Prerequisite: Mu 121.

**Upper Division Courses**

Mu 201 **THEORY I.** (3) Study of elements of musical organization; four-part harmonization and analysis. Integrated sight singing and dictation.

Mu 202 **THEORY II.** (3) Continuation of Mu 201. Prerequisite: Mu 201 or permission of instructor.

Mu 210 **SURVEY OF MUSIC LITERATURE I.** (3) Introduction to the literature of music. Discussion of representative compositions from all style periods with emphasis on listening and rudimentary aural analysis of selected works.

Mu 211 **SURVEY OF MUSIC LITERATURE II.** (3) Continuation of Mu 210. Mu 210, however, is not a prerequisite.

Mu 221 **MUSIC IN THE SECONDARY SCHOOL.** (2) Overview of role, and responsibility of music teacher. Vocal, instrumental, and general music education.

Mu 222 **METHODS AND MATERIALS IN THE SECONDARY SCHOOL.** (2) Emphasis on instrumental and choral methods and materials. Practical guide for secondary music educator. Prerequisite: Mu 221.

Mu 301 **THEORY III.** (3) Continuation of Mu 201; special emphasis on harmonic developments during the Romantic period (chromaticism, altered chords).

Mu 302 **THEORY IV.** (3) Continuation of Mu 301. Basic compositional techniques and analysis; twentieth-century harmonic vocabulary.

Mu 303 **FORM AND ANALYSIS.** (3) Intensive study of larger musical forms; works selected from representative works of instrumental music literature.

Mu 304 **ORCHESTRATION - ARRANGING.** (3) The technique of scoring for band and diverse instrumental ensembles.

Mu 310 **MUSIC HISTORY I.** (3) Historical development of music from antiquity to the end of the Baroque era.

Mu 311 **MUSIC HISTORY II.** (3) Historical development of music from Viennese Classicism to the present; a continuation of Music History I.

Mu 324 **CONDUCTING I.** (3) Fundamentals of conducting. Basic techniques, and study of shorter choral and instrumental works.

Mu 325 **CONDUCTING II.** (3) Continuation of Mu 324.

Mu 326 **INSTRUMENTAL TECHNIQUES I.** (2) Class instruction in string and woodwind instruments.

Mu 327 **INSTRUMENTAL TECHNIQUES II.** (2) Class instruction in brass and percussion instruments.

Mu 328 **FUNCTIONAL PIANO.** (2) Development of basic skills needed for playing accompaniments and harmonizations at the keyboard. Designed for students who wish to teach in the elementary and secondary school.

Mu 330 **MUSIC FOR THE LITURGY.** (3) Survey of sacred music appropriate for liturgical celebrations throughout the church year.
Music

Mu 331 **CHURCH SERVICE PLAYING.** (1) A practical course in hymn playing and the accompaniment of psalmody and other liturgical songs.

Mu 401 **COMPOSITION.** (3) Introduction to creative writing in simple musical forms. Prerequisite: Mu 303.

Mu 402 **COUNTERPOINT.** (3) Advanced course of contrapuntal writing in the style of eighteenth-century composers. Emphasis on chorale prelude and fugue.

Mu 410 **SYMPHONIC LITERATURE.** (3) Study of representative symphonic compositions from the pre-classic era to the early twentieth century; emphasis on listening and discussion of stylistic and formal traits.

Mu 411 **STUDIES IN MUSIC LITERATURE.** (3) Survey of development and repertoire of vocal, choral or instrumental literature. Topics vary with need of curriculum design.

Mu 416 **STUDIES IN MUSIC HISTORY.** (3) In-depth study of specific eras in the history of music or of major composers and their work.

Mu 424 **VOICE CLASS.** (1) Group instruction in the basic techniques of voice production.

Mu 425 **PIANO PEDAGOGY.** (2) Principles of teaching piano; survey of teaching materials.

Mu 426 **CONTEMPORARY APPROACHES IN MUSIC EDUCATION.** (3) Introduction to Orff and Kodaly methodology; curricular innovations for elementary, middle school, and secondary levels.

Mu 427 **FOUNDATIONS OF MUSIC EDUCATION.** (3) A comprehensive study of Music Education: history, philosophy, theory, and practical application.

Mu 440 **SENIOR SEMINAR.** (2) Review and coordination of historical, theoretical, and practical aspects of music. Supplement to courses taken by the individual student through research and discussion.

Mu 445 **INDEPENDENT STUDY.** (1-3)

**Applied Music and Music Performance:**

The Department of Music offers private instruction in the instruments or instrumental areas listed below. One half hour per week merits one credit.

**Courses in Applied Music**

Mu 150 **PRIVATE LESSONS.** (1)

A Piano
B Organ
C Voice
D Guitar
E Strings
F Woodwind
G Brass
H Percussion

**Ensembles**

Mu 160 **EDGECLIFF SINGERS.** (1) Chorus of mixed voices. Performance of choral compositions from the Renaissance to the present. Open to all students. Credit or non-credit.
CONCERT BAND (1) Performance of original compositions for wind ensemble from all periods as well as transcriptions of traditional literature. Open to all students, no audition required. Credit or non-credit.

WOODWIND ENSEMBLE. (1) A select woodwind chamber ensemble performing original works and transcriptions. Participation with consent of director.

GUITAR ENSEMBLE (1) Study and performance of music for guitar and guitar ensemble from all style periods. Participation with consent of instructor.

Nursing (Nr)

Staff: MRS. CASEY, chairperson; MRS. HERN, MS. MEYER, MS. QUINN, MRS. SCHMIDT

Upper Division Courses

NURSING CONCEPTS AND PHILOSOPHY. (3) An overview of theories, concepts, and philosophies of professional nursing.

NURSING PROCESS I. (3) Emphasis is placed on the nursing process and its relationship to community health concepts, community assessment, and the role of the nurse in family and individual (physical) health assessment.

NURSING PROCESS I PRACTICUM. (2) Practice settings for development of assessment skills and provided in campus laboratories and community agencies.

NURSING PROCESS II. (3) This course exposes students to the broad concepts of community health through application of the nursing process. Emphasis is on health prevention and promotion of the developmental needs for high-risk expanding families.

NURSING PROCESS II PRACTICUM. (2) Clinical experiences in the local health department and other related community agencies are employed.

CULTURAL DIVERSITIES AND LIFE STYLES IN HEALTH AND NURSING. (2) Emphasis is placed on concepts of world, national, and state health care needs and systems. The student is introduced to concepts of health care planning for diversified cultures. Cultural norms that influence nursing care and health practices are examined.

INTRODUCTION TO NURSING RESEARCH. (2) Basic theory of research in Nursing as a problem-solving tool. Research proposal is developed. Prerequisites: Mt 146 and CS 124.

NURSING RESEARCH PRACTICUM. (1) Research process is implemented. Prerequisite: Nr 400.

NURSING PROCESS III. (3) The focus is on concepts related to individuals in the young adult, middle, and later years encountering complex health problems. Emphasis is on maintenance, restoration, and rehabilitation.

NURSING PROCESS III PRACTICUM. (2) Health delivery for the adult patient in a variety of health care agencies.

NURSING PROCESS IV. (3) Theory of leadership principles in nursing practice are explored. The focus is on collaboration, coordination, evaluation, and advocacy with the health team and significant others in planning for and administering care to individuals, families, and groups.

NURSING PROCESS IV PRACTICUM. (2) Implementation of leadership and management principles in nursing are applied in a variety of health care settings.
CONTEMPORARY ISSUES IN NURSING. (2) The course provides an opportunity for the student to study in depth some of the social, political, economic, and legal issues which will affect the role of the professional nurse in contemporary American society.

Social Work (SW)

Staff: MS. JENKINS, chairman; MR. GERWE, MR. LONG

Lower Division Courses

SW 101 INTRODUCTION TO CRIMINAL JUSTICE. (3) (CJ 101).
SW 104 CONTEMPORARY SOCIAL PROBLEMS. (3) A systematic study of major social problems in modern society.
SW 167 INTRODUCTION TO SOCIAL WORK. (3) An introduction to the field of social work and the three major purposes of social work: (1) the enhancement of problem solving, coping, and developmental capacities of people; (2) the promotion of effective and humane operation of systems that provide people with resources and services; and (3) the successful linkage of people with these systems. (CJ 167).

Upper Division Courses

SW 208 ECONOMICS OF SOCIETY. (3) A study of basic principles of economics essential to understanding economic problems from a social point of view and the policy alternatives society may utilize to contend with these problems.
SW 210 FAMILY, AND SOCIETY. (3) A study of marriage preparation, partner selection, marital adjustment, family structure and functions, and marital dissolution. Current problems facing the family will be explored with an emphasis on macro-intervention strategies which may be employed for problem resolution.
SW 213 DEVIANT GROUPS. (3) An in-depth study of American culture and the effects it has upon the relationship of the individual to the social order; a look at societal child-rearing practices, autonomy, and self-actualization.
SW 216 HUMAN LIFE CYCLE II: ADOLESCENT-ADULT. (3) Psychological, physiological, and social approach to development and experience from adolescence to death, Interdisciplinary. Prerequisites: Ps 101, 215, and So 101. (Ps 216).
SW 221 JUVENILE JUSTICE IN A CHANGING SOCIETY. (3) (CJ 221).
SW 222, 223 CHILD CARE PRACTICUM AND SEMINAR: (4:4) Supervised experience in a child care institution or agency. A one-hour weekly seminar is given in conjunction with the placement which focuses on experience in the field and readings related to child care work. (Only for students in the Child Care Program.)
SW 260 CURRENT ISSUES IN CRIMINAL JUSTICE. (3) (CJ 260).
SW 261 SOCIAL PSYCHOLOGY. (2-3) (Ps 261, Ed 261).
SW 265 OVERVIEW OF CONTEMPORARY CORRECTIONS. (3) (CJ 268).
SW 307 CHILD WELFARE. (3) This course is designed to acquaint the student with a broad knowledge of child welfare services. The course begins with the historical development of services to children and then emphasizes the types of needs children have, types of organized services they receive, and personnel available to give services to children. (CJ 307).
SW 311 **RESEARCH METHODOLOGY.** (3) An in-depth study of the basic steps and processes in scientific inquiry.

SW 315 **SOCIAL INSTITUTIONS AS A SYSTEM.** (3) A critical analysis of society's response to social welfare needs and problems; society's attempt to meet these problems through purposive programs and organizations based on prevailing social values.


SW 318 **TRENDS IN MODERN SOCIETY: RACE RELATIONS.** (3) A study of causes, effects, and forms of racial prejudice and stereotyping. Emphasis on social conditions and attitudes which affect black/white relations and the resulting individual and structural consequences. (CJ 318).

SW 325 **WOMEN/MEN: MYTH AND REALITY.** (3) A study of the changing roles of men and women in American culture. Emphasis on sex roles, sex stereotyping, and socialization of the sexes. Social conditions and attitudes which affect the role and status of women and men in the institutions of government, business and economics, education, and family are explored.

SW 330 **COMMUNITY ORGANIZING.** (3) A study of the theories, principles, and techniques of community organization with an emphasis on practical research. (Po 330).

SW 395 **DIRECTED STUDY.** Credit to be arranged.

SW 409 **GROUP DYNAMICS.** (3) (Ps 409).

SW 415 **THEORY AND METHODS OF SOCIAL WORK PRACTICE I.** (3) Introduction to major theories and bodies of knowledge required as a basis for social work intervention. An introduction to the values and skills associated with the practice of social work. Prerequisites: SW 315, 316.

SW 416 **THEORY AND METHODS OF SOCIAL WORK PRACTICE II.** (3) Continued development of the student's knowledge and application of the fundamentals of social work practice, the problem-solving process and the effective use of self as an agent of change. Prerequisite: SW 415.

SW 417, SW 418 **SOCIAL WORK FIELD INSTRUCTION.** (4,4) Students are provided with an opportunity to work directly with clients in an existing social service agency under the supervision of a skilled practitioner. To be taken concurrently with SW 419, 420.

SW 419, SW 420 **SOCIAL WORK SEMINAR.** (2,2) This course is designed to provide the student with an opportunity to integrate the knowledge and theory acquired in the classroom with the experiential learning gained from actual work experience.

SW 424 **RESEARCH PAPER.** (1) The research proposal submitted in SW 311 is to be completed in this course.
Theatre Arts (TR)

Staff: MR. KVAPIL, chairman; MR. GILMORE
Assisted by: FR. FLYNN, MR. GLENN, MS. REICHSMAN, MR. WESSLING

Lower Division Courses

TR 105 INTRODUCTION TO THEATRE. (3) Designed to acquaint theatre majors and other interested students with professional theatre.

TR 106 ACTING I. (3) An introduction to and familiarization with the basic principles of acting as they deal with the creation and interpretation of a role from a specific play.

TR 108 PLAY DIRECTION I. (3) An introduction to the basic elements of directing for the theatre. Included are the studies of composition, picturization, movement, and pantomimic dramatization.

Upper Division Courses

TR 201 VOICE AND DICTION. (3) (CA 102).

TR 202 INTRODUCTION TO SCENE DESIGN. (3) Principles and projects in theatrical scene design—emphasis on mechanical perspective, color, and form.

TR 204 ORAL INTERPRETATION. (3) A performance course acquainting the student with interpretation and vocal performance of all forms of printed text.

TR 206 STAGE MOVEMENT. (3) An introduction to the basic dance techniques and the creative use of movement including strength, flexibility, and control.

TR 208 THEATRE PRACTICUM—COSTUME. (1-4) Supervised Lab practice in the design and execution of costumes.

TR 209 THEATRE PRACTICUM—TECHNICAL THEATRE LIGHTING. (1-4) Supervised Lab practice in the design and execution of scenery, lighting, properties, and sound.

TR 210 THEATRE PRACTICUM—AUDIENCE DEVELOPMENT. (1-4) Supervised Lab practice in problems of theatre publicity, finance, and house management.

TR 211 THEATRE PRACTICUM—DIRECTING/STAGE MANAGEMENT. (1-4) Supervised Lab practice in basic rehearsal techniques and procedures.

TR 212 INTRODUCTION TO COSTUME DESIGN. (1-4) Application of principles of design to stage costuming with emphasis on fabrics, figure drawing, and characterization.

TR 220 PLAY PRODUCTION. (3) Fundamentals of theatrical production, both theoretical and practical.

TR 221 STAGECRAFT. (3) Procedures and practice in theatrical production, construction, and scene-painting techniques.

TR 222 INTRODUCTION TO LIGHTING. (3) Fundamentals of theatrical lighting design and execution for proscenium and nonproscenium forms.

TR 223 PRINCIPLES OF THEATRICAL MAKE-UP. (3) To acquaint the student with the basic principles of the art and technique so they may be used creatively in the design and execution of make-ups.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>TR 302</td>
<td><strong>COSTUME HISTORY.</strong></td>
<td>(3) Development of costume from pre-Greek era; emphasis on clothing as reflection of Western cultural development.</td>
</tr>
<tr>
<td>TR 306</td>
<td><strong>COSTUME CONSTRUCTION.</strong></td>
<td>(3) Principles and practice of theatrical costuming with emphasis on construction technique and fabrics.</td>
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<tr>
<td>TR 307</td>
<td><strong>ACTING II.</strong></td>
<td>(3) Specialized problems in acting relative to varied types of plays and periods. Advanced role study and characterization. Prerequisite: TR 106 or approval of instructor.</td>
</tr>
<tr>
<td>TR 308</td>
<td><strong>STAGE MOVEMENT II.</strong></td>
<td>(3) An extension of the basic techniques of dance and creative movement, plus the use of a variety of movement qualities in characterization.</td>
</tr>
<tr>
<td>TR 309</td>
<td><strong>SURVEY OF THEATRE HISTORY.</strong></td>
<td>(3) A study of theatrical practices in the Western world from ancient Greece to the present.</td>
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<tr>
<td>TR 310</td>
<td><strong>SURVEY OF DRAMATIC LITERATURE.</strong></td>
<td>(3) (En 122).</td>
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<tr>
<td>TR 312</td>
<td><strong>CONTEMPORARY TRENDS IN THEATRE.</strong></td>
<td>(3)</td>
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<tr>
<td>TR 331</td>
<td><strong>THE HISTORY OF THE AMERICAN MUSICAL COMEDY.</strong></td>
<td>(3) To introduce and familiarize the student with the current dominant form of American theatre, the Musical Comedy.</td>
</tr>
<tr>
<td>TR 401</td>
<td><strong>STUDIES IN SHAKESPEARE.</strong></td>
<td>(3) (En 135).</td>
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<tr>
<td>TR 402</td>
<td><strong>SHAKESPEARE: HISTORIES AND COMEDIES</strong></td>
<td>(3) (En 326).</td>
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<tr>
<td>TR 403</td>
<td><strong>SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES.</strong></td>
<td>(3) (En 327).</td>
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<tr>
<td>TR 405</td>
<td><strong>MODERN DRAMA.</strong></td>
<td>(3) (En 372).</td>
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<tr>
<td>TR 406</td>
<td><strong>CONTEMPORARY DRAMA.</strong></td>
<td>(3) (En 373).</td>
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<tr>
<td>TR 407</td>
<td><strong>ACTING—SPECIAL STYLES.</strong></td>
<td>(3) An intensive study and performance of specialized acting styles from Greco-Roman theatre through Moliere to present-day realism.</td>
</tr>
<tr>
<td>TR 408</td>
<td><strong>ADVANCED PLAY DIRECTION.</strong></td>
<td>(3) Advanced study of directional problems, in various types of physical theatres including arena and thrust stages. Musical comedy and opera staging is also reviewed.</td>
</tr>
<tr>
<td>TR 421</td>
<td><strong>SENIOR SEMINAR.</strong></td>
<td>(3) To achieve a synthesis of the varying areas of theatre study into one general theory of Drama and indicate specific practices that grow from this unified whole.</td>
</tr>
</tbody>
</table>
Programs—
College of Continuing Education

The Arabic numeral in parentheses following course titles indicates the number of semester credit hours which the course carries.

Radiologic Technology (RT)

Staff: DR. HELMES, chairman; MS. WIDEMAN, program coordinator; MS. BANZHAF, MRS. BORGEMENKE, MS. EMERSON, MRS. LEWIS, MS. NASH, MRS. PINNOW, MRS. WILLIAMS

RT 100 MEDICAL TERMINOLOGY. (1) Medical word roots, stems, prefixes and suffixes. Common medical abbreviations. Roentgenographic terminology.

RT 102 NURSING PROCEDURES. (1) Nursing concepts as applied to radiology. Basic patient care. Emergency procedures.

RT 103 RADIOGRAPHIC POSITIONING I. (2) Patient positioning for routine and special radiographic procedures.

RT 104 RADIOGRAPHIC POSITIONING II. (2) Continuation of RT 103.

RT 105 PRINCIPLES OF RADIOGRAPHIC EXPOSURE I. (2) Basic concepts of radiation protection. Radiographic exposure and radiographic accessories.

RT 106 PRINCIPLES OF RADIOGRAPHIC EXPOSURE II. (1) Radiographic film quality factors.

RT 109 CLINICAL EXPERIENCE I. (2) Radiographic clinical competency training and evaluation.


RT 203 SPECIAL PROCEDURES. (2) Special radiographic procedures. Contrast media. Patient care.


RT 206 RADIATION THERAPY AND NUCLEAR MEDICINE. (1) Survey of current concepts in radiation treatment procedures and nuclear medicine.

RT 209 CLINICAL EXPERIENCE II. (2) Advanced radiographic clinical competency training and evaluation.

RT 210 GENERAL RADIOGRAPHY. (2) Advanced radiation protection concepts, and patient positioning. Radiographic anatomy.

RT 211 EQUIPMENT AND MAINTENANCE. (1) Design uses and maintenance of specialized radiographic equipment.
Real Estate (RE)

Staff: DR. HELMES, chairman; MR. DUFFY, program coordinator; MR. BREED, MR. CAROSELLI, MR. KELLER, MR. KLEINHAUS, MR. LEVINE, MR. MORROW

RE 322 **REAL ESTATE PRINCIPLES AND PRACTICES I.** (2) R.E. products, markets, production, subdividing, developing, and brokerage. Selling residential properties, valuation, finance, the mortgage, and property management.


RE 325 **REAL ESTATE FINANCE.** (2) Institutions, methods, instruments, and procedures involved in financing of R.E. Mortgagor and mortgagee's rights and obligations. Leases and finances. Insured and uninsured mortgages. Sources of financing. Mortgage banking. Federal influence. Prerequisites: RE 322, 324.


Programs —
The Graduate School

The Arabic numeral in parentheses following course titles indicates the number of semester credit hours which the course carries.

The following programs are offered exclusively through the Graduate School. Other graduate programs also have an undergraduate program. The complete course descriptions of such departments are listed in the undergraduate sections of this catalogue.

Corrections (Cr)

Staff: MR. HAHN, chairman; DR. RICHARDSON, JUDGE COLLINS, DR. ENDRES, MR. DALLMAN, MR. ENSIGN, MR. FARMER, MR. HARRINGTON, DR. MILLER, MR. OVERBERG, DR. PALMER, MR. PRATT

Assisted by: DR. BERG, MR. SETA

Upper Division Courses

CJ 210 BASIC CONSTITUTIONAL LAW. (3)
CJ 221 JUVENILE JUSTICE IN A CHANGING SOCIETY. (3)
CJ 230 THE AMERICAN COURTS. (3)
CJ 260 CURRENT ISSUES IN CRIMINAL JUSTICE. (3)
CJ 265 OVERVIEW OF CONTEMPORARY CORRECTIONS. (3)
Cr 488 HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (Ed 488, Ps 488, So 488, CJ 233.)

Graduate Courses

Cr 501 FOUNDATIONS OF CORRECTIONS. (3) Theories of criminology, current philosophies, and methodology.
Cr 503 INSTITUTIONAL CORRECTIONS. (3) Treatment methods and custodial care in correctional institutions for juveniles and adults.
Cr 505 NON-INSTITUTIONAL CORRECTIONS. (3) Probation and parole principles and techniques. Alternatives to incarceration. Decision-making. The use of auxiliary services for juvenile and adult offenders.
Cr 510 LEGAL ASPECTS OF CORRECTIONS. (2) Laws related to the field of corrections. Recent Supreme Court decisions. The lawyer's role in relation to corrections. Rights and responsibilities. Prerequisite: Cr 501.
Cr 518 BLACK PERSPECTIVES IN CORRECTIONS: A SEMINAR. (2) Effective approaches concerning Black issues in corrections.
Cr 520 SOCIOLOGY OF CRIME AND DELINQUENCY. (3) Social factors related to crime and delinquency. Etiological theories and their implications for prevention and correction.
Cr 521 JUVENILE DELINQUENCY AND THE JUVENILE COURT. (2) Theoretical and practical applications related to delinquency and the juvenile court.
Cr 533 COUNSELING IN CORRECTIONS. (2) Viable treatment modalities in corrections.
Hospital Administration

Cr 534 **RATIONAL SELF COUNSELING.** (1) Training in self-help techniques utilizing the Rational Behavioral Therapy counseling approach to solving emotional problems.

Cr 537 **ADVANCED CORRECTIONAL COUNSELING.** (2) Effective therapeutic approaches in counseling offenders.

Cr 540 **CORRECTIONAL ADMINISTRATION.** (2) Management problems in corrections. Budget, personnel, public relations. Prerequisite: Cr 501.

Cr 541 **DIVERSION AND THE CRIMINAL JUSTICE SYSTEM.** (2) Implications of contemporary programs to minimize penetration in the criminal justice system.

Cr 542 **ROLE OF CORRECTIONAL ARCHITECTURE.** (2) Structural, architectural, and security systems in correctional institutions.

Cr 543 **AMERICAN PRISON TODAY.** (2) Contemporary concepts in the American correctional movement.

Cr 544 **CRIMES AGAINST THE ELDERLY.** (2) Victimology and its impact on the criminal justice system and the related service agencies.

Cr 550 **ALCOHOL AND CRIMINALITY.** (2) Alcohol-abuse related to the public offender.

Cr 566 **CRIME AND PERSONALITY.** (3) (CJ 266, Ps 266, Ed 266).

Cr 576 **PSYCHOLOGY OF DELINQUENCY.** (2) (Ps 276, Ed 276).

Cr 580 **INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom).** (2) Field observation, case analysis, special readings, or data evaluation. Taken concurrently with Cr 590.

Cr 581 **CORRECTIONAL/SOCIAL RESEARCH.** (3)

Cr 590 **INTERNSHIP IN CORRECTIONS. (Non-classroom).** (2) Supervised on-the-job training. Three hundred hours. Placement in correctional setting. Final course in the program.

Cr 598 **RESEARCH: CORRECTIONS.** (2-3)

**Hospital and Health Administration (HA)**

*Staff:* DR. ARLINGHAUS, director; DR. BOCKLET, associate director; DR. GEROWITZ, DR. SHAVER

*Assisted by:* MR. ALVAREZ, MR. BECKMAN, DR. COPELAND, MR. DARBY, MR. DOYLE, DR. ELKUS, MR. FALBERG, MR. HALL, MS. LENHART, DR. MEZINSKIS, DR. PECKHAM, DR. PHILIPPS, MR. ROBERTO, DR. RUWE, MR. TOMASZEWSKI, MS. WILLIAMS, MR. WOOD

HA 510 **HEALTH CARE ORGANIZATION.** (3) An analysis of the health community outside the hospital with focus on medical sociology; delivery mechanisms; need, supply and resources of health services; quality of care; governmental controls; comprehensive health planning; political process; and the public health system, emphasizing the interrelationships of each with the hospital sector.

HA 515 **HEALTH ORGANIZATION THEORY.** (3) The historical development of the hospital in relation to ambulatory and long-term care services, and the impact of personal, societal, and professional expectations, values, and demand patterns are examined. It also includes an examination of the health care organization, including governance, quality assurance, medical staff responsibilities, departmental and interdepartmental relationships.
HA 530 **HEALTH INFORMATION SYSTEMS.** (3) This course is designed to acquaint the hospital and health administration student with the particulars of information systems and how such systems can be used as effective management tools. Discussion will include technical detail on computer systems and design techniques to enable the student to become conversant with the topic of computers and their use. Special emphasis is placed on the logical matching of available information systems with a particular management information need.

HA 550 **HEALTH CARE LEGAL ASPECTS.** (3) The purpose of this course is to provide the health care administration student with a framework for the understanding of the legal climate within which the health care institution operates. Emphasis is placed upon those legal concepts which bear most heavily upon the operation, planning, and decision-making activities of the health care administrator.

HA 560 **SEMINAR: HEALTH CARE ADMINISTRATION.** (2) A course designed to prepare students for their administrative experience. This course, through seminar discussions, case studies, and simulations, requires students to apply various aspects of the curriculum and materials presented in previous course work.

HA 570 **CURRENT TRENDS IN MEDICINE.** (2) The purpose of this course is twofold: 1) to develop a working knowledge of medical technology and terminology through a brief description of the anatomy, physiology, and pathology of the seven major organ systems; and 2) to develop an understanding of the barriers which presently exist between physicians and administrators in the hospital setting.

HA 610 **QUANTITATIVE TECHNIQUES FOR HEALTH ADMINISTRATORS.** (3) Quantitative Techniques for Hospital Administrators is an introductory course in Industrial Engineering in the health care field. Although a sound understanding of theoretical concepts is necessary, the course is heavily oriented toward the practical application of industrial engineering methods. The major topics to be covered include the following:

- Regression Analysis
- Forecasting and Time Series Analysis
- Work Measurement and Standards
- Productivity Measurement and Reporting
- Equipment Investment Analysis
- Inventory Systems Analysis
- Project Administration
- Critical Path Methods
- Staffing Analysis

HA 630 **HEALTH CARE FINANCE I.** (3) This course is an introduction for the student to the changing fiscal environment within the health care industry. A hospital management student must have a critical understanding of the basic financial terms and an understanding of the financial statements and how to review them if the health care institution is to survive. The student must be aware of all financial aspects and concepts in order to make decisions. Decisions within the health care industry eventually do have a financial impact upon that particular institution.

HA 660 **HUMAN RESOURCES MANAGEMENT FOR HEALTH ADMINISTRATORS.** (3) This course focuses on the role of personnel supervision with specific attention devoted to recruitment, wage and salary administration, employment development programs, and union/management relationships in the health field.

HA 700 **HEALTH CARE FINANCE II.** (3) A course designed to build upon an understanding of microeconomics, financial accounting and reporting systems, and capital financing. Students develop skills in institutional budgeting, cost determination, financial impact, and financial feasibility analysis.
Hospital Administration

HA 720  **THEORY IN PLANNING/STRATEGIC MANAGEMENT.**  (3) Students are exposed to the concepts and theories underlying the relationships between organizations and their environments, the processes available to assess environmental trends and impacts, and to design and implement structures responsive to both external and internal organizational demands.

HA 725  **ISSUES, METHODS AND CASES IN STRATEGIC MANAGEMENT AND PLANNING.**  (3) The rationale and implications of competitive and regulatory trends and their alternatives are examined critically in terms of health care policy and the role of the socially responsive health care administrator. Students are introduced to a variety of health status measures, need determination, and marketing methodologies designed to assess institutional relationships and community resource requirements. Structures, processes, and functions for health systems planning under P.L. 93-641, and the relationships between institutional strategy development and implementation are explored through case development and analysis.

**Administrative Residency**

During the Administrative Residency, students will enroll in the following three practicum titles: (HA 690, 742, 698). These three activities will take place during the eight-month Administrative Residency.

HA 690  **PRACTICUM IN EXECUTIVE DEVELOPMENT.**  (2) Assuming the health care delivery system will become increasingly complex, the health care executive must be prepared to function effectively in the new milieu.

Essentially, this person must be a good communicator who can think quickly and clearly in stressful situations. The ability to scan computer data accurately and read rapidly is essential. The person's ethical and moral base must be solid and socially acceptable. The professional acumen of the futuristic executive must be multidisciplinary. This multidisciplinary acumen will allow for a higher degree of problem solving and a lower risk of failure to solve the whole problem. Poise and manners will be part of this person's effectiveness.

HA 742  **ORGANIZATIONAL AND DEPARTMENTAL ANALYSIS.**  (2) The plan for rotation through all departments is coordinated with a hospital-wide departmental survey to assess the needs of the hospital and its people, and to determine the degree to which the hospital is meeting both these needs and its primary goals. The survey will be accomplished in three stages:

- **Stage I:** Data collection to establish an informational base.
- **Stage II:** On-site study to determine present operational structure, function, and productivity.
- **Stage III:** Post-visit report (from which e.g. criteria for staffing can be established; budget analyses can be accomplished; inservice programs can be designed).

HA 698  **THESIS PROJECT.**  (6)
PA 501 **PRACTICUM.** (3) For those students with no prior experience in the public sector, this course brings public managers onto campus to discuss various topics.

PA 505 **INTERNSHIP.** (3) For those students with no prior experience in the public sector, an internship with a public agency is required.

PA 510 **GRADUATE SURVEY IN PUBLIC ADMINISTRATION.** (3) An accelerated course in the field of public administration designed primarily for M.P.A. students with no previous course work in public administration.

PA 515 **RESEARCH METHODS IN PUBLIC ADMINISTRATION.** (2) Introduction to quantitative and qualitative techniques of data acquisition, analysis and presentation.

PA 530 **PUBLIC PERSONNEL ADMINISTRATION.** (3) Provides an understanding of the processes for maximizing the human resources of a public agency.

PA 540 **POLITICS OF ADMINISTRATION.** (3) Designed to detail the political context within which public agencies must operate.

PA 550 **PUBLIC BUDGETING AND ACCOUNTING.** (3) Focuses on alternative public budgeting techniques; fund accounting.

PA 565 **ADMINISTRATIVE ETHICS.** (3) Reviews the ethical underpinnings of the polity, public policy and public administration.

PA 575 **ADMINISTRATIVE LAW.** (3) Reviews the development and implications of administrative law.

PA 585 **URBAN POLITICS AND ADMINISTRATION.** (3) The relationship between the political and administrative structures and processes within urbanized areas are examined from an interdisciplinary perspective.

PA 625 **PUBLIC POLICY IMPLEMENTATION.** (3) How policy agendas are established, developed, and then executed.

PA 630 **POLICY ANALYSIS AND PROGRAM EVALUATION.** (3) Looks at the alternative techniques used for policy analysis and evaluation.

PA 635 **INTERGOVERNMENTAL PROGRAM ADMINISTRATION.** (3) Focuses on the programmatic, policy and fiscal components of intergovernmental relations.

PA 640 **MANAGEMENT IN THE PUBLIC SECTOR.** (3) Designed to integrate and reinforce knowledge from other courses pertaining to public management.

PA 690 **SPECIAL TOPICS IN PUBLIC ADMINISTRATION.** (1-3) Relevant problems and issues in public administration will be studied under a variety of formats.

PA 695 **READINGS IN PUBLIC ADMINISTRATION.** (1-3) Intensive readings within a subfield of public administration accompanied, usually, by a bibliographical essay.

PA 699 **APPLIED RESEARCH SEMINAR.** (3) Simulates the day-to-day exigencies facing the public manager in acquiring limited information and making decisions upon it. Serves as a vehicle for M.P.A. analytic paper.
The Graduate School

Administrative Officers

DAVID C. FLASPOHLER, Ph.D.
Dean

THOMAS H. HANNA, Ed.D.
Associate Dean

DORIS R. WOLF, M.Ed.
Administrative Assistant

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

FRANCIS V. MASTRIANNA, Ph.D.
Executive Dean, College of Business Administration

ELAINE A. CRABLE, Ed.D.
Assistant to the Dean, College of Business Administration

LOIS E. O'BRIEN, A.B., M.Ed.
Administrative Assistant, College of Business Administration

The Graduate Council

DAVID C. FLASPOHLER, Ph.D.
(Chairman) Dean, Graduate School

ROY D. ADLER, Ph.D.

ALBERT A. BOCKLET, Ph.D.

MICHAEL E. ENDRES, Ph.D.

JOHN R. GETZ, Ph.D.

DAVID T. HELLMANN, Ph.D.

PAUL F. KNITTER, Th.D.

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

THOMAS H. HANNA, Ed.D.
(Secretary) Associate Dean, Graduate School

FRANCIS V. MASTRIANNA, Ph.D.
Executive Dean, College of Business Administration

KENNETH T. SCHEURER, M.Ed.

PETER A. SHOCKET, Ph.D.

DAVID R. WEINBERG, Ph.D.
GENERAL POLICIES

The policies listed here affect all graduate students. Some degree programs do have special policies which are specified with individual program descriptions.

Classification of Students

Graduate students who have been admitted to Xavier University are designated as degree, provisional, or special students.

Degree students are those students officially accepted into candidacy for a graduate degree program. Students not in degree status are technically classified as special students until candidacy has been approved.

Provisional students are those students accepted with a deficiency of an academic or administrative nature which must be removed before they may apply for candidacy as a degree student.

Special students are those pursuing graduate courses without intent of completing a graduate degree. They may pursue these courses with profit without regard for degree requirements.

Student Responsibility

It is the responsibility of the graduate student to become informed concerning all regulations and procedures required by the course of study being pursued. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation or asserts that information was not given by an advisor or other authority. Students should become familiar with the requirements for the degree being pursued and the offerings and requirements of the major department. The department chairman should be consulted concerning requirement deficiencies, the planning of a program, and special regulations.

It is to be noted that the Graduate Dean interprets Graduate School policies. Only the Graduate Dean may waive requirements stated herein.

Admission

The Admissions Committee consists of the Chairman of the Department which the student seeks to enter, the Dean of the Graduate School, and the Associate Dean.

Application for admission to graduate studies is made by means of an application form which can be obtained upon request from the Graduate Office.

Applicants must also present evidence of having a bachelor's degree from an accredited institution and also provide official (sealed) transcripts from each college in which credit was obtained.

An applicant with a bachelor's degree from a non-accredited institution is not admitted to full graduate standing until the student has successfully completed at least six hours of graduate work with the required grades and has been accepted by the department which controls the program. Certain colleges and/or departments within the University do not accept students from institutions which have not received approval from a regional accrediting agency.

The chairman of the department of the student's major subject must decide on the student's preparation for graduate study in that department. After acceptance, an academic advisor will be assigned by the department chairman to direct the student's program. Graduate work in any department generally assumes that the student has completed the equivalent of an undergraduate major at Xavier University.

All applicants for admission to the Graduate School (other than those seeking the M.B.A. or M.H.A.) will be required to take the Miller Analogies Test at Xavier University, or to provide an official report of their scores on that test. The score will aid in the admissions decision and in the guidance of the student. M.B.A. and M.H.A. applicants will be required to
Graduate School

take the Graduate Management Admission Test or to have official test scores forwarded to the Graduate School. M.H.A. students must have official test scores of the Graduate Record Examination (GRE) forwarded to the graduate school.

Notification of acceptance or rejection is sent to each applicant as soon as possible after receipt of the application, pertinent transcript(s) and test scores. Admission will be denied if the applicant's record of scholarship and test scores are not sufficiently distinguished, or if the undergraduate program is judged inadequate for advanced academic or professional study.

Seniors with exceptional academic standing who are near completion of their undergraduate requirements for the bachelor's degree may register for graduate work, providing that these courses are in excess of the requirements for the bachelor's degree.

Official acceptance for graduate study is good for a two-year period from the date of acceptance. If a student does not honor the acceptance within this period of time, the application and documents are destroyed unless the applicant requests that the documents be returned or sent elsewhere.

Any falsification of information on the application, transcripts, recommendations (where required), or test scores will be sufficient cause for disqualification for admission or dismissal if the individual has been admitted. All tuition and fees paid and graduate credit earned are forfeited under such dismissal.

Students transferring from another university must be in good standing at the university or they will not be admitted to Xavier. Evidence of good standing must be produced upon request.

Xavier University is non-discriminatory on the bases of age, sex, race, color, religion, handicap, nationality, or ethnic origin.

Admission—International Students

International students must apply on special application forms available through the Graduate Office and must comply with all requirements for admission before formal acceptance will be granted and an I-20 form issued.

Because of the extensive processing required of applicants from foreign countries, no application for an academic school year beginning in September will be accepted from an international student not within the United States after May 15 for the ensuing academic school year.

International students within the United States attending other accredited institutions of higher learning must apply and submit all documents and other requirements prior to June 15 if they wish acceptance for the academic school year beginning in September. Such students may be accepted for a subsequent semester or summer session if they apply after June 15.

Students must provide the Graduate Office in advance of acceptance with evidence of proficiency in the English language (TOEFL score is preferred), evidence of financial resources or sponsorship to pay tuition, fees, and living expenses while at Xavier, one official copy of their total college or university academic record from all schools attended (mark sheets should be provided where pertinent), three letters of reference including character and academic recommendations, an official medical examination report or certificate of health dated within one year of application, and the GMAT score if application is for the M.B.A. program. Transcripts must bear the original signature (not a photograph) of the authorized official and the original seal (not a photograph) of the institution to be acceptable. Attested or "true" copies are not acceptable unless certified by an authorized official. All documents not issued in English by the officials signing them must be accompanied by certified English translations. Direct all information to "Graduate International Student Advisor" at Xavier University.

Xavier does not accept students in the U.S. on visitor's visas, or students who enter the U.S. on I-20 forms issued by another university unless the student attends that institution for
at least one quarter or semester. Female students must reside in a campus dormitory unless sponsored by a local American family.

Students accepted for study must obtain accident and sickness insurance coverage as a condition of admission, and must keep the insurance in force at all times while in student status at the University.

Xavier University does not place students in jobs for the purpose of practical training after graduation.

**Academic Contract**

Completion of the registration process on the part of the student and the University constitutes the formation of an Academic Contract binding on both parties. The terms of such contract include the express provisions, regulations, and academic and financial requirements contained in the University catalogue in effect at the time of registration and all the provisions, regulations, and requirements that can reasonably be implied from such express catalogue provisions. However, the University reserves the right to modify tuition and the amount or number of fees at the beginning of any academic years subsequent to the student's initial registration. Continuation as a student in good standing is a condition of compliance with the terms of the Academic Contract.

**Course Load**

A full-time graduate course load during the academic year consists of a minimum of twelve semester hours. In some programs the Department Chairman and Graduate Dean have determined that a smaller number of hours represents a full-time load. A minimum of five semester hours is considered full-time during a summer session for all programs.

For students not fully employed, six semester hours each summer session is ordinarily the maximum student load permitted, though a student who wishes may take seven hours in a summer session without special permission. Permission to take more than seven hours must be obtained from one of the Deans. Ordinarily it will not be granted.

Fully employed students normally may not take more than seven semester hours of course work in the fall or spring semester, or four semester hours during regular summer sessions in which they are fully employed. Permission to exceed these limits must be granted by one of the Deans.

**Special Courses**

Special courses such as workshops, institutes, tutorials, independent study, and courses graded on a satisfactory/unsatisfactory basis are available and may be applied toward a graduate degree. However, a student's degree program may not include more than six semester hours of such special course work.

**Candidacy**

Upon completion of the sixth graduate hour, degree students must make application for candidacy. Approval by the Graduate School is based on satisfactory completion of six or more hours. Those thought unfit will be advised to discontinue their course work. Candidacy decisions will be deferred if appropriate admissions documents have not been submitted.

No more than five years may elapse between candidacy and completion of work for the degree. For the purposes of this requirement, the date of candidacy is defined to be the beginning of the student's seventh hour of work toward the degree.

Candidates for the master's degree who fail to complete all requirements within five years after admission to candidacy must be readmitted to candidacy by the Dean of the Graduate School before they can proceed.
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A student whose degree candidacy has expired may appeal to the Graduate Dean for permission to reactivate the candidacy on the basis of taking at least twelve semester hours of refresher course work as determined by an advisor. All degree requirements must be met within two years of the date of reactivation.

Course Numbers

Courses are numbered in the following way:

- 100 to 199: Lower division courses, not applicable for graduate credit.
- 200 to 499: Upper division courses, open to graduate students for graduate credit except where specified for undergraduate credit only. Some degree programs accept none or a limited number of such courses.
- 500 to 799: Courses for graduate credit only, open to graduate students only.

Xavier University operates on the Semester System.

Graduate Grading System

The following symbols are used in the evaluation of course work:

- A: Outstanding achievement, unusual intellectual ability and initiative
- B: Good academic achievement (numerical acceptable graduate work in courses numbered below 500)
- C: Minimal graduate achievement (acceptable only in courses numbered 500 or above)
- S: Satisfactory
- D: Inferior, no graduate credit
- F: Failure
- U: Unsatisfactory
- Au: Audit - no credit
- I: Incomplete
- W: Withdrawal

To obtain credit, graduate students must do work of at least B quality in courses numbered 200 to 499, and of at least C quality in courses numbered 500 or higher.

The grade of S (satisfactory) does not equate with letter grades and is transferable to other universities only upon their approval.

Clearance of Incompletes

Grades of I (Incomplete) must be cleared within thirty days after the last day of the semester in which the course was taken. This time limit may be extended only if the student requests an extension with an agreement specifying another date. The agreement must be signed by both the student and the professor, and must be submitted to the Graduate Office within the thirty day limit. After the time limit for a change has passed, the grade becomes a permanent I. No grade may be altered under any circumstances after five years from the end of the term in which the course was taken.

Repetition of Courses

Courses completed in a student's undergraduate program or in another graduate program may not be repeated for graduate credit. Courses applied to another degree, either at Xavier or elsewhere, may not be applied to any Master's degree at Xavier.

Requirements

A minimum of thirty semester hours of graduate work is demanded for any master's degree. However, more than 30 graduate hours may be required in some programs.

Specific requirements of the Master's program are described in program brochures available upon request. Though advisory services are provided to assist all students, the
Graduate School

student alone is responsible for following the procedures and completing the steps required for the program. Requirements of the Graduate School, both procedural and substantive, may be waived only by written request of the student and/or department chairman concerned and must have the written approval of the Dean of the Graduate School.

Distribution of the course requirements must be approved by the chairman of the department of the major subject. At least one-half of the courses must be in that department.

Character of the courses required is subject to the decision of the advisor. At least one-half of the hours of credit in the major subject and one-half the total number of hours toward the degree must be obtained in courses numbered 500 to 799, distinctly graduate courses.

Probation

One unsatisfactory grade (below C in courses in the 500 to 799 series, below B in courses in the 200 to 499 series) place a graduate student on probation; two such grades makes the student ineligible to register in a degree program.

Dismissal

The Graduate School reserves the right to dismiss a student for reasons of poor scholarship, failure to remove academic probation, or misconduct.

Xavier University reserves the right to require a student to withdraw if, in the judgment of University officials, such action would be beneficial to the physical, mental, emotional, or moral best interests of the student or is considered necessary for the welfare of the University.

Such dismissal is prospective in nature and does not affect any terms of any past Academic Contract between the dismissed student and the University.

Class Attendance

Reasonable attendance at all class meetings of courses for which a student has registered is expected of students as a condition for the granting of academic credit. Lack of reasonable attendance as determined by the Graduate Council, Graduate Dean, and faculty members concerned is reason for denial of credit for a course and possible course failure.

Examinations

Candidates for graduate degrees other than the M.B.A. and the M.A. in Humanities shall be required to pass a final comprehensive examination, oral or written. This examination is oral in all programs requiring a thesis. It shall be the policy of the Graduate School to give these examinations three weeks prior to the end of the final semester. A faculty member shall be appointed by the Department Chairman to act as chairman of the examining committee and be responsible for giving the examinations. A student must pass other examinations required by the major department.

The matter for the examination shall be based primarily on the student's courses and the thesis, if a thesis is written. It is understood, however, that a candidate's general knowledge of the field must be found satisfactory by the examiners.

A student who fails to pass the final comprehensive examination may appeal to the appropriate departmental chairman to repeat the examination during a subsequent semester or session (only one examination is permitted during the summer). A second failure will result in termination of candidacy for a degree.

Advanced Standing from Other Universities

Six semester hours (or the equivalent) of graduate work completed at another accredited graduate school prior to initial admission to Xavier University may be transferred as Advanced Standing toward the M.A., M.S., M.B.A., M.H.A., M.P.A., or M.Ed. degree. The
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permission of the department chairman concerned and the approval of the Graduate Dean is necessary. Only grades of A or B are acceptable for Advanced Standing, and the course work must have been completed on the university's main campus. Extension work and work done by correspondence or television are not acceptable for Advanced Standing.

A limit of six semester hours of graduate course work obtained in the Greater Cincinnati Consortium of Colleges and Universities may be applied to a master's degree taken at Xavier. Exceptions to this requirement may be made only by the Dean. All Consortium course work must be approved by the student's department chairman before registration for the course work.

As a matter of policy, the Graduate School does not enter course work completed at other universities on its permanent record unless the course work applies toward a Xavier University advanced degree or pertains to certification recommended by the University.

Graduate Credit Transferable

Ordinarily no graduate credit completed at another university is transferable toward a graduate degree at Xavier once the student has begun a graduate program at Xavier. Under certain extraordinary circumstances, advanced written approval for transfer of a course may be obtained from one of the Deans under such circumstances as:

1. When a student is permanently transferred to another city.
2. When directed by one of the Deans or the academic advisor for a specific purpose to take a course not available at Xavier.

No credit earned at another university after admission to a Xavier degree program will be accepted toward the Xavier graduate degree unless the course work has been approved in advance and in writing by the Graduate Dean or department chairman.

Only grades of A or B are acceptable in transfer.

Thesis

The thesis required for a degree should embody the results of the applicant's research in some problem of the major subject, and must at each stage be under the direction of an appropriate faculty member appointed by the chairman.

Before beginning work on the thesis, the student should secure from the Graduate Office the form "Approval of Thesis Project" and also the sheet of instructions titled "Form and Mechanics for Writing Theses."

The student must submit three typed copies of the thesis after it has been formally approved, and pay the current fee for the binding of the library copy.

Application for Degree

Degrees are awarded three times each year: in August for those completing programs during the summer sessions, in December for those who complete the program in the fall semester, and in May if the student finishes during the spring semester. Diplomas are not available until the Commencement Exercises in May on the date of graduation. Verification of completion of the degree will be provided upon request prior to the May commencement for August and December graduates.

All students planning to complete requirements for graduate degrees must submit an Application for Degree form to the Graduate Office within the first month of their final semester of work—in summers, during the first two weeks of the first Summer Sessions. When the requirements for the degree are not completed at the time specified on the application, the student must reapply for the new date.

It is recommended that an appointment be made with the student's department chairman at the time the student registers for the final semester of work to make certain all degree requirements will have been met by the end of that semester.
The Graduate School will automatically eliminate from the graduation list the name of any student whose final grade label contains either a grade of I (Incomplete) or a missing grade unless there is evidence in the student's file that the course is not a requirement for the degree.

Non-Academic Requirements for the Degree

Candidates for a graduate degree must have discharged all financial obligations to the University.

Graduate students must be able to demonstrate an ability to communicate effectively in writing before the University will grant a degree. When deemed necessary by the Dean, remediation may be required.

Access to Graduate Student's Files and Release of Confidential Information

Education records are defined as those records, files, documents, and other materials which (1) contain information directly related to a student; and (2) are maintained by Xavier University.

The only information divulged openly without consent of a student by the Graduate Office is Directory Information which is defined as the student's name, address, telephone listing, date and place of birth, major field of study, dates of attendance, degrees and awards received, and previous educational agencies and institutions attended by the student. Should a student not wish directory information released, it is the student's responsibility to so notify the Graduate Office.

The Graduate School will release educational records without the student's consent in the following cases:
1. To state officials where required by a state law which was adopted prior to November 19, 1974.
2. To accrediting institutions.
3. To appropriate persons if in the judgment of one of the Graduate School Deans, the knowledge of such information is necessary to protect the health or safety of the student or other persons.

Students' files are made available to Xavier University officials including faculty members who have legitimate educational interests.

A student may examine his or her own file, except for closed recommendations, at any time upon twenty-four hours notice in writing to the Graduate Office. Closed recommendations are those given to the University on a confidential basis with reference to admission to graduate programs. Recommendations made after December 31, 1974 are closed only if the student has signed a waiver of access. All closed recommendations are removed from the student's file before the student is permitted to review it. A record of the review is placed within the file after the student has examined the contents. A student may see his or her file only under supervision of one of the members of staff of the Graduate Office.

If an individual outside the University complex wishes to review a student's folder, the Graduate School will require that the student give a written release to the Graduate Office for the individual to use or review the file. A written record of each such review will be maintained in the student's file along with a copy of the release. A student must give the Graduate Office a written release if it is desired that material from his or her file be sent outside the University.

Transcripts must be requested in writing by letter or by the Graduate School's form for transcript requests.

No graduate transcript will be released until an official undergraduate transcript has been received showing undergraduate degree and date of graduation, or in the case of transient students, a statement of transient status has been received from the other university.
Graduate School

Tuition and Fees

Current tuition and fee information is available in a separate Graduate Office publication which may be obtained upon request.

Auditors taking graduate courses pay the same tuition and fees as credit students. Students taking courses for undergraduate course audit pay 50% of the total undergraduate tuition plus any applicable fees.

Graduate students taking undergraduate courses for undergraduate credit are charged undergraduate fees.

Individual course fees are assessed in some courses where extraordinary costs are involved. These fees are indicated in the current schedule of classes.

Students awarded their degree as of August or December must pay all outstanding financial obligations including the Graduation Fee before a transcript showing the degree will be released. Students receiving their degree as of May must pay all tuition and fees including the Graduation Fee by May 1. The Graduation Fee must be paid by every student who graduates whether in person or in absentia.

Tuition and Fees*

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Application fee, Cincinnati (payable once)</td>
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<tr>
<td>Application fee, Columbus and Lexington (payable once)</td>
<td>20.00</td>
</tr>
<tr>
<td>Tuition: Education, Arts, Science courses except Psychology (per semester hour)</td>
<td>104.00†</td>
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<tr>
<td>M.A. Psychology (per semester hour)</td>
<td>120.00†</td>
</tr>
<tr>
<td>Tuition: Business Administration, Hospital and Health Administration, and Public Administration (per semester hour)</td>
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<td>Tuition: Education and Corrections, Columbus, Ohio</td>
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<td>Business Administration, Columbus, Ohio</td>
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<td>Business Administration, Lexington, Kentucky</td>
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<td>Change of registration fee (per transaction)</td>
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<td>Miller Analogies Test (Taken in group sessions)</td>
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<td>(Administered individually)</td>
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<td>Graduate Management Admission Test</td>
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<td>Graduation fee</td>
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<td>M.B.A. students only</td>
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<td>Binding of thesis fee (Library copy)</td>
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<td>Laboratory science fee (per course per semester for Biology, Chemistry, Physics, Experimental Psychology, and Physiological Psychology)</td>
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<td>Laboratory science deposit (per course per semester—partially refundable)</td>
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<td>Laboratory materials deposit for physical science thesis (payable once—partially refundable)</td>
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<td>Parking fee</td>
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<td>Part-time student</td>
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<td>Duplicate Transcript</td>
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<td>Special Examination</td>
<td>15.00</td>
</tr>
</tbody>
</table>

†Full-time teachers and school personnel. Discount of $7.00 per credit hour applies.

*Expenses listed are for the 1982-83 academic year. Changes are made in these rates from time to time.

Payment Policy

Financial arrangements should be settled on the day of registration. The act of registration creates a financial obligation on the part of the student to Xavier University. Attendance at classes will not be permitted until financial arrangements have been made with the Bursar.
Any outstanding student account must be paid in full before registration. Arrangements may be made for partial deferred payment. Under the deferred payment plan, the following payments for the semester must be made before registration is completed: a) a minimum of 75% of tuition and fees, b) total room and board charges. The balance is payable within sixty days. This same payment requirement and deferred payment plan applies to summer sessions, except that any unpaid balance is payable before the end of each summer session. On unpaid balances, the following service fee applies to all University students:

A 1½% per month service fee will be charged to all accounts with an unpaid balance over thirty (30) days old. The service fee is computed on the balance outstanding on the first day of the preceding month, less any payments and credits received that month. New charges incurred during the month are not subject to service fee for that month. To avoid any additional service fee, the entire amount due may be paid at any time.

 Bills will be mailed monthly. No service fee will be charged if the total outstanding balance is paid on or before the last day of the month in which the bill is rendered. Tuition for short-term courses is payable in full at registration.

Withdrawal

Students who have officially registered for a class but decide to discontinue attendance, or students who wish to cancel registration before they have entered class must withdraw officially by completing a withdrawal form in the Graduate School Office or by informing the office in writing of their intent.

The same procedure applies when a student decides to drop one class to enter another.

Refunds

A refund of tuition may be claimed in the case of withdrawal or dismissal in the first portion of a term. Fees are not refundable. A student is subject to this refund policy whether or not any classes have been attended. Passing or failing a course does not alter the financial obligation.

The date on which the withdrawal form or other written notice is received is used by the Graduate School to determine possible tuition charges or refunds. No refunds may be granted without official withdrawal through the Graduate School Office. Ceasing to attend class or informing a professor of the intent to withdraw does not constitute official withdrawal. A claim for a tuition refund will not be honored by the University if more than one year has lapsed dating from 35 days after the beginning of each course in question.

The percentage of refund is based on the total tuition charged whether the student made full or partial payment at the time of registration. Thus, a balance may be owed even though the student has withdrawn.

Students who do not withdraw officially through the Graduate School Office when they stop attending classes are liable for the total tuition and fee charges for the semester or session. Those who register, decide not to start class, but do not withdraw officially through the Graduate School office are also liable for the total tuition and fee charges for the semester or session.

Tuition refunds are completed according to the following schedule:

<table>
<thead>
<tr>
<th>Academic Year: (All Classes)</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before the first class meeting</td>
<td>100%</td>
</tr>
<tr>
<td>First day of class and 6 days thereafter</td>
<td>90%</td>
</tr>
<tr>
<td>7 - 13 days after first class meeting</td>
<td>70%</td>
</tr>
<tr>
<td>14 - 20 days after first class meeting</td>
<td>50%</td>
</tr>
<tr>
<td>21 - 27 days after first class meeting</td>
<td>30%</td>
</tr>
<tr>
<td>28 - 34 days after first class meeting</td>
<td>10%</td>
</tr>
<tr>
<td>After 34 days</td>
<td>None</td>
</tr>
</tbody>
</table>
Graduate School

Summer Sessions: (Day Classes) Refund
Before 1st class meeting ........................................... 100%
Before 3rd class meeting ........................................... 90%
Before 5th class meeting ........................................... 70%
Before 7th class meeting ........................................... 50%
Before 9th class meeting ........................................... 30%
After 9th class meeting ........................................... None

Summer Sessions: (Evening Classes) Refund
Before 1st class meeting ........................................... 100%
Before 2nd class meeting ........................................... 90%
Before 3rd class meeting ........................................... 70%
Before 4th class meeting ........................................... 50%
Before 5th class meeting ........................................... 30%
After 5th class meeting ........................................... None

Scholarships: Graduate School
Xavier University annually offers scholarships in all departments in which graduate programs are offered. A number of scholarships may be awarded in each department by the Graduate Scholarship Committee on recommendation of the chairman of the department concerned. Scholarships will be awarded only to those who have demonstrated academic excellence in their undergraduate work. Scholarships cover tuition only. They may be used only for courses applicable to the student’s degree.

Awards will be subject to the following requirements and procedures:
1. Scholarships will be awarded only to students prepared to do full-time graduate study (usually 12 semester hours minimum per regular semester, 6 hours during a summer session, or as determined by the department chairman in certain departments). Students may not work at any job on a full-time basis while on scholarship status.
2. Only students who fully meet departmental requirements as outlined in the University catalogue should apply.
3. Applications should be made by letter addressed to the Dean of the Graduate School, Xavier University, Cincinnati, Ohio 45207. An application for admission to graduate study must also be submitted with the scholarship letter if this has not previously been done.
4. Official transcripts of all previous college work should be forwarded to the Dean of the Graduate School (one from each college attended).
5. At least two letters from educators who can evaluate the academic qualifications of the applicant should be forwarded directly to the Dean of the Graduate School by the writers.
6. The appropriate standardized test must be taken and scores provided to the Graduate Office. M.B.A. applicants must take the GMAT; M.H.A. applicants must take the GRE; others take the Miller Analogies Test.
7. Applications, letters, and transcripts for scholarships must be in the Graduate Office not later than March 31 and applicants will be notified of the decision of the Graduate Scholarship Committee during the latter part of April of the academic year prior to the award.
8. The award is forfeited by failure to do superior work.
9. Under special circumstances, partial scholarships may be awarded.

Assistantships
Graduate assistantships are awarded annually in Chemistry, Psychology, and Business Administration. Assistants are expected to devote about half-time to graduate studies and about half-time to service in the department.
Letters of application should be addressed to the chairman of the department concerned. Letters of recommendation from the chairman of the applicant’s undergraduate department and one other professor should be sent directly to the chairman of the department at Xavier University. All admissions documents must be submitted to the Graduate Office.

All letters of application, recommendation, and transcripts should be in the hands of the chairman concerned not later than April 1, and successful applicants will be notified ordinarily in April by the chairman concerned.

Assistantships are also available in University dormitories. Further information may be obtained from the Director of Housing.

Veterans’ Education

The Graduate School has been approved by the Veterans’ Administration for education training under all existing public laws. Requests for information should be addressed to the Director of Veterans’ Educational Benefits, Xavier University, Cincinnati, Ohio 45207.

International Student Advisor

The Graduate School’s International Student Advisor will assist international students with such problems as adjustment to University life, requirements of the Immigration Service, and social matters. The department chairman handles the student’s academic counselling.

Facilities for Study and Research

Computer Center: The University Computer Center maintains a Time Sharing (Digital Equipment Company VAX 11/780) computer and several Micro-computers which are exclusively available to faculty and students of the University for classroom work or research. Members of the Computer Center also provide consultation and advisory assistance to those wishing to use these services in their work.

Library: The University has a rapidly growing collection of over 240,000 volumes, more than 1,500 periodical subscriptions, and microform to serve and supplement the educational and research programs of the University. A special service for graduate students is the interlibrary loan program. Consortium agreements have opened several local research libraries to Xavier University students.

Some departments of the University maintain department collections within their own buildings.

Graduate students wishing to keep books in the library may obtain a locker on an assignment basis.

Health Services

In the Fall and Spring semesters, graduate students may use all the services of the University Health Center for a nominal semester fee. During summer sessions, the Center’s fees are determined by the particular services rendered.

A student accident, sickness, and hospital insurance plan is available to full-time graduate students.

Housing Arrangements

Graduate students usually make their own arrangements for obtaining housing accommodations. Dormitory accommodations are available to a limited number of graduate students each semester and are generally available to all graduate students during the summer sessions. Assistance in obtaining off-campus accommodations may be obtained by writing the Director of Housing, Office of the Dean of Students.
Graduate School

Campus Parking

A limited amount of parking is available to graduate students on campus. The Graduate School cannot guarantee parking places. During Fall and Spring semesters, parking stickers are required on cars parked on campus, and a parking fee is charged.

The M.B.A. Student Association was created to bring together executive-oriented people who look forward to meeting the needs of business responsibilities. The M.B.A. degree requires training in administrative techniques and principles, including a broad range of prerequisite areas of business studies.
THE MASTER OF ARTS
THE MASTER OF SCIENCE

The final goal of the M.A. and M.S. programs is that the student may come to possess a specialized knowledge of the candidate's chosen field and an intelligent appreciation of its place in the wide panorama of human thought.

The degree of M.A. or M.S. is awarded to the candidate who has demonstrated a capacity for further study or teaching by satisfactorily completing a program of graduate work designed to give these characteristics:

1. An understanding of the relations of the candidate's subject to allied subjects and to the synthesis of Christian culture, which is the basis of Western civilization.
2. A comprehensive knowledge of the broad field of learning in which the degree is conferred.
3. A specialized knowledge of a portion of that field.
4. Proven ability to do research in the special field of study.

General Requirements

In accordance with the above objectives the general requirements for the degrees are respectively:

1. Completion of such undergraduate prerequisites as will give assurance of the candidate's general educational background. Satisfactory completion of the Miller Analogies Test.
2. A reading knowledge of a foreign language or approved substitute. This requirement does not apply to all degrees. See specific degree program for information.
3. Completion of a program consisting of at least twenty-four hours of integrated classroom study within the student's chosen field, an acceptable thesis of a research character for which six graduate credit hours are registered for and awarded; or at least thirty hours of integrated classroom study, and a substantial research paper specifically accepted by the department to satisfy this requirement.
4. Completion of a final oral comprehensive examination, if a thesis is written, or a written examination if a thesis is not included in the program and an extended research paper in one of the courses.

Specific Departmental Requirements

Within the general requirements, departments administering programs may add specific regulations. Candidates for degrees are urged to maintain close relationship with the chairmen of their particular departments.

THE MASTER OF ARTS — ENGLISH

The program for the Master of Arts degree in English is designed to develop the student's critical and historical understanding of the English language and its literature. The program also seeks to develop the writing and research skills of students.

It is strongly recommended that all candidates take a course in The History of the English Language (En 203) or Historical Linguistics (En 503). Each candidate should work out his/her program in close consultation with the Chairman of the Department.

Students may choose one of two programs. In one program the student completes 30 semester hours of course work. At least half of the course work must be at the 500-level. Students must submit to the department a seminar paper that has been written in a 500-level course.

In the second program the student completes 24 semester hours of course work, at least half of which must be at the 500-level. The thesis, for which six hours are awarded, must be written under the guidance of a member of the English Department and must demonstrate the student's ability to do research and/or original critical analysis.
Graduate School

Candidates for the M.A. in English must also pass a written comprehensive exam in English and American literature. This exam is based on a selected list of major works, which is revised every two years. The comprehensive examination is given in the spring and in mid-summer.

Students seeking admission to the graduate program in English are expected to have a 3.0 average in their undergraduate English courses.

THE MASTER OF ARTS — HISTORY

The Master's program in history at Xavier is designed to meet the needs of two types of students. First, the research M.A., with its emphasis on historiography and technique, gives the student who plans to work toward the Ph.D. the background that he should have. The second type, the non-research M.A., is planned for the secondary or the elementary school teacher who desires to earn the Master of Arts degree. It emphasizes content courses and factual material. The non-research program will ordinarily not prevent the student from further studies, should he decide at a later date to do so.

Requirements:
1. All students must complete half their work in courses numbered 500 to 799.
2. Those who elect the degree with thesis must present twenty-four hours of class work, six additional hours will be granted for the thesis when it is accepted.
3. Those who elect the degree without thesis must complete two to five courses in one of the following areas of concentration: The United States, Europe, Ancient (Classical), Latin America, or Asia. They must also write an extended research paper, on a subject having Departmental approval, in the area of concentration, and pass an extended written examination in that area.
4. Further instructions are available from the Department Chairman.

THE MASTER OF ARTS — HUMANITIES

"THE HUMAN SEARCH FOR MEANING AND VALUES" is the integrating theme of this interdisciplinary humanities program. It is designed to provide intellectual stimulation, personal growth, and self-satisfaction for mature adults who believe that learning should be an exciting, life-long experience.

The program is intended especially for those who have already established themselves in their careers and who wish to continue their education on a part-time basis. Courses are available in the evening for the convenience of those with family or job responsibilities during the day. Initial courses in the program are structured so as to facilitate the return of those who have been away from academic life for some time.

The program is both focused and flexible. It requires the successful completion of thirty semester hours of graduate course work. Eighteen of these hours constitute the program's core. They provide extensive opportunities for reading, discussion, and critical analysis in the humanities: literature, history, philosophy/theology, and the fine arts. Some core courses are taught by faculty teams representing different disciplines.

Core Requirements:

THE WESTERN INTELLECTUAL TRADITION I. (Hu 501, 3 credit hours).
THE WESTERN INTELLECTUAL TRADITION II. (Hu 502, 3 credit hours).
LANGUAGE OF THE HUMANITIES. (Hu 511, 3 credit hours).
SCIENCE AND THE HUMANITIES. (Hu 521 or its equivalent, 3 credit hours).
THE QUEST FOR MEANING AND VALUES. (3 credit hours: satisfied by completing an approved course in either philosophy or theology).
LITERATURE AND THE HUMAN IMAGINATION. (3 credit hours: satisfied by taking an approved course in literature).

Through elective courses (twelve semester hours chosen from among approved courses in the humanities, liberal arts, and social sciences), students may tailor the program to their individual interests. Provision is made for independent study opportunities and for short-term as well as semester-length courses.

With its orientation toward personal growth and self-satisfaction, the Master of Arts in Humanities is clearly not a research program. There is no foreign language requirement or formal research thesis. Each student must, however, prepare an acceptable humanities essay or alternative project at the conclusion of the course of study.

Admission is open to any interested person with a bachelor's degree and a good academic record, regardless of undergraduate major. There are no other prerequisites. Graduate School admissions procedures and specific requirements must be followed. In addition, each prospective student must submit to the Director a letter which (a) describes the applicant's career since receiving the bachelor’s degree, and (b) indicates the applicant’s reasons for seeking admission to the program. Applicants are strongly encouraged to meet with the Director prior to registering for courses.

THE MASTER OF ARTS — PSYCHOLOGY

The degree of Master of Arts in psychology is designed to prepare students for continuing their graduate studies to the doctoral level and to prepare students for employment in the areas of clinical, counseling, and industrial psychology.

Program of Studies

1. To insure comprehensiveness in their program, all candidates must include in their program each of the following courses designed, in their whole, to provide integrated coverage of the graduate field of psychology. These courses are:

   Ps 463, **THEORIES OF PERSONALITY I AND II.** Four or six credit hours, two or three each semester.
   Ps 501 **CONTEMPORARY THEORY IN PSYCHOLOGY.** Three credit hours.
   Ps 502 **SEMINAR: PHILOSOPHICAL ISSUES IN PSYCHOLOGY.** Three credit hours.
   Ps 505 **PROFESSIONAL PROBLEMS IN PSYCHOLOGY.** One credit hour.
   Ps 511 **ADVANCED STATISTICS.** Three credit hours.
   Ps 521 **ADVANCED EXPERIMENTAL PSYCHOLOGY.** Three credit hours.

2. To insure the attainment of his particular objective in graduate study in psychology, the student must include a concentration in one of the following areas of concentration:
Graduate School

General-Experimental Psychology

A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Social Psychology, Psychological and Achievement Tests, Individual Tests of Intelligence, Early Cognitive Development, Individual Study, Practicum in Experimental Psychology.

Clinical Psychology

A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Psychopathology, Introduction to Psychiatric Treatment Methods, Individual Tests of Intelligence, Counseling Principles and Techniques, Personality Assessment Techniques I and II, Behavior Therapy, Counseling and Psychotherapy. Practicum in Clinical Psychology is required.

Counseling Psychology

A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Developmental Psychology, Principles of Guidance, Psychological and Achievement Tests, Counseling Principles and Techniques, Individual Tests of Intelligence, Behavior Therapy, Counseling and Psychotherapy. Practicum in Counseling is required.

Industrial Psychology

A minimum of thirteen credit hours selected from the following courses: Marketing Research, Personnel Selection and Development, Learning and Motivation, Individual Tests of Intelligence, Psychology of Job Stress, Motivation and Behavior in Organizations, Psychological and Achievement Tests. Practicum in Industrial Psychology is required.

As a climax to his program, each student must register for PS 699 Master's Thesis, six credit hours. The student will prepare an acceptable thesis which will be defended in the student's final oral examination.

4. The degree of Master of Arts in psychology will be awarded only to candidates who have demonstrated a reading knowledge of a foreign language or demonstrated a proficiency in a computer language (FORTRAN programming) and, in final oral examination, have both successfully defended their thesis and successfully demonstrated their knowledge of the general field of psychology.

Admission

a. A 2.8 overall undergraduate and a 3.0 average in all psychology courses. This average is computed by assigning quality points of 4 for each credit hour of A.

b. Satisfactory performance on the MAT (Miller Analogies Test). Score required prior to acceptance.

c. A minimum of 18 undergraduate credit hours in psychology which should include experimental psychology (with laboratory), introductory statistics, psychology of personality and/or abnormal psychology. Also courses in biological science and college mathematics are recommended as a preparation for graduate studies. In case the applicant does not meet these requirements, the applicant may be admitted as a special student until the necessary hours are made up.

d. Personality and character traits which are in agreement with ethical standards of psychology.
Graduate School

Procedures of Admission

Full-time students must complete the following procedures in advance of registration:

a. Submit to the Graduate Office the completed application form for admission to the Graduate School and special application form for admission to the Department of Psychology.

b. Submit transcript of previous college work.

c. Submit to the Graduate Office report of MAT score or arrange with the Department of Psychology for examination.

d. At times, a personal interview may be required by the Admissions Committee. The student will be notified by the Department of Psychology and arrangements for the interview will be made at that time.

e. The Dean of the Graduate School will notify the applicant of official acceptance.

THE MASTER OF ARTS — THEOLOGY

The Master of Arts in theology degree is designed especially for those professionally involved in teaching and in directing programs of religious education and for those wishing to develop previous theological training.

Because no definite amount of previous study of theology is prerequisite for admission to the program, students may vary considerably in their preparation to undertake it. Ordinarily applicants should have a background in the humanities, but each applicant will be considered individually.

All applicants must complete the Miller Analogies Test prior to acceptance and obtain a score of 44 or higher.

The applicant's previous academic record will also be taken into account in the admission process.

Each student, after acceptance, will be assigned a faculty advisor who, in cooperation with the teachers of individual courses, will help those with little preparation to overcome their deficiencies by means of supplementary reading or the like. If, however, prerequisite course work seems to the admissions committee to be necessary in a given case, it will be assigned.

Program of Studies

The M.A. in theology will require satisfactory completion of 30 semester hours of graduate work (i.e., ordinarily ten courses), all of which must be at the graduate (500-700) level. To insure comprehensiveness in their program, all students will be required to take Christian Tradition and The Task of Understanding, and, in addition, one course each in Historical Theology, Liturgy, Ethics, and Systematics. The remaining five courses are free theology electives and may be chosen from the above areas as well as from other areas such as Liturgy, Spirituality, Religious Education, etc.

After completion of the first six hours of graduate course work, each student's ability to complete the program will be evaluated on the basis of work done in the courses taken and the student admitted to candidacy or not. Application for candidacy is made by form.

Some students may substitute a thesis for two of their elective courses. This must be discussed and agreed to with an advisor prior to completion of the first twelve hours of graduate course work. The thesis will be read by its director and two additional readers who will then discuss it informally with its author. Students who do not write a thesis will be required to submit a research paper demonstrating their mastery of research skills.

All students will be required to pass a written comprehensive examination, covering the required areas of study, demonstrating the broad grasp of theology which the program is designed to inculcate.

There is no foreign language requirement for the degree.
THE MASTER OF SCIENCE — CHEMISTRY

The M.S. in chemistry is designed to prepare students for continuing their education to the doctoral level in chemistry, for employment in the chemical industry, or for teaching positions at the secondary and junior college level.

For admission to the program, the applicant should have had undergraduate training in chemistry substantially equivalent to that of a Xavier University B.S. Chemistry major.

Undergraduate prerequisites also include mathematics through the calculus and a full year of physics. A student seriously deficient in these prerequisites will be required to make up the deficiency prior to, or concurrently with, his graduate chemistry studies.

All candidates for the degree of Master of Science must select courses from the four major areas of chemistry according to the following scheme:

Organic Chemistry

One course to be selected from Ch 550 Organic Stereochemistry, and Ch 590 Organic Reaction Mechanisms.

Physical Chemistry

Two courses to be selected from Ch 525 Thermodynamics; Ch 530 Chemical Kinetics; and Ch 535 The Chemical Bond.

Inorganic Chemistry

One course to be selected from Ch 610 Advanced Inorganic Chemistry I, and Ch 612 Advanced Inorganic Chemistry II.

Analytical Chemistry

Two courses to be selected, one from Ch 680 Instrumental Methods, and Ch 685 Synthesis and Characterization of Chemical Compounds; the other course must be a lecture course in the field of Analytical Chemistry.

These courses, all of which carry two hours of credit, generally are offered on a two-year cycle. However, the program can be entered in any semester (excluding summer). The sequence of courses is listed in a brochure which can be obtained from the Chairman of the Department of Chemistry. For descriptions of courses, see listings under the Department of Chemistry.

In addition to the twelve semester hours of chemistry obtained by selection of six of the courses indicated above, the student must earn another twelve hours of classroom credit. The courses which may be taken include: graduate courses in chemistry other than the ones selected from the above list; certain upper division undergraduate courses in chemistry; graduate mathematics and physics courses; and certain upper division mathematics and physics courses. No more than two undergraduate chemistry courses may be counted towards the degree requirements and the permission of the Chairman of the Chemistry Department must be obtained in the case of mathematics and physics courses.

In his selection of courses, the student is guided by the Department Chairman, or, after selection of a research project, by his research director. The following courses are offered on a regular basis. In addition to these, other courses are offered from time-to-time by part-time faculty in the area of their expertise.

Ch 320, INTRODUCTION TO RADIOCHEMISTRY AND LABORATORY. (Three/ two/one) credit hours.

Ch 340, TOPICS IN ORGANIC CHEMISTRY. Two credit hours.

Ch 370, BIOCHEMISTRY. Three credit hours.
Graduate School

Ch 555 Heterocyclic Organic Chemistry. Two credit hours.

Ch 570 Newer Methods of Synthetic Organic Chemistry. Two credit hours.

Ch 595 Organometallic Chemistry. Two credit hours.

Ch 640 Medicinal Chemistry. Two credit hours.

Ch 690 Special Topics. Two credit hours each semester.

Ch 695 Special Study. One credit hour each semester.

A minimum of thirty semester hours of credit is required for the degree of Master of Science in chemistry. These shall ordinarily be distributed as follows:

1. Twelve credit hours selected from the specified courses in the four areas of organic, physical, inorganic, and analytical chemistry.

2. Twelve additional credit hours selected from graduate and upper division undergraduate chemistry courses and from appropriate mathematics and physics course offerings (see above).

3. Six hours of credit obtained through satisfactory completion of a Master's research problem (Ch 699), submission of a written thesis, and the passing of an oral examination on the contents of the thesis. (A student who can present credentials attesting to significant research experience previously obtained, upon approval by the Chairman of the Department, may be permitted to substitute six hours of additional course work for the research requirement, two hours of which must be Ch 697 Problems in Chemistry.)

4. The satisfactory completion of a written examination in a scientific modern language (chemical German, French, or Russian). Successful completion of an examination (or a University course) in computer language (FORTRAN) may be substituted for the reading proficiency examination in a scientific modern language.

5. For full-time students, enrollment in Ch 500 Graduate Chemistry Seminar, each semester of attendance. Part-time students are encouraged to attend seminar whenever their schedules permit.

All degree students must present at the time of registration a schedule of courses to be taken which has been approved by the Chairman of the Department of Chemistry or by the student's research director.

Non-degree students are encouraged to consult with the Chairman prior to registration to determine if they possess the proper prerequisites for the course(s) of interest.

Part-time students, especially those who have not chosen a research topic, are urged to consult with the Chairman to learn how curriculum modifications have affected their program of studies.

THE MASTER OF SCIENCE - CORRECTIONS

The Master of Science in Corrections program is multi-disciplinary and designed for those persons who wish to search for new answers and address new questions, be part of an ever-developing knowledge-base, adjust attitudes, or sharpen the skills required to address the complex issues in the criminal justice system in general and particularly in corrections in a free society.

The degree of Master of Science in corrections will be awarded only to candidates who have successfully completed 30 credit hours and who have passed an extensive written examination on the general field of corrections as covered by the required courses, and successfully completed internship and research non-classroom courses (Ch 590 and Ch 580 respectively).
Graduate School

Requirements for admission include graduation from an accepted undergraduate course of studies with a quality point average and other indications of interest and ability to perform well in corrections at the graduate level. Each application for admission is considered on an individual merit basis.

To insure comprehensiveness in their programs for the degree of Master of Science in corrections, each course of studies must include the four basic required courses, along with five other required courses, designed to insure adequate coverage of the broad field of corrections and its relationship to the American criminal justice system. The multi-disciplinary approach includes systemic analysis, constitutional and criminal law, criminology, and issues related to historical and contemporary practice. Course content is continually reviewed and revised to insure relevance to wide criminal justice issues, changing social concepts evolving case law, and ethical considerations and governmental polices.

A minimum of thirty hours is required for the degree of Master of Science in corrections. These will be distributed as follows:

**BASIC REQUIRED COURSES:**

- **Cr 501** FOUNDATIONS OF CORRECTIONS. Three credit hours. Criminological theories, historical and current philosophies and methodology; a survey and critique.
- **Cr 503** INSTITUTIONAL CORRECTIONS. Three credit hours. Treatment methods and custodial care in correctional institutions for juveniles and adults.
- **Cr 505** NON-INSTITUTIONAL CORRECTIONS. Three credit hours. Probation and parole principles and techniques emphasized, along with the use of Halfway Houses, volunteers, and other auxiliary services for juvenile and adult offenders.

**EITHER OF THE TWO COURSES LISTED BELOW IS ACCEPTABLE FOR REQUIRED CREDIT:**

- **Ps 566** CRIME AND PERSONALITY. Three credit hours. Ego psychology related to the dynamics of crime and delinquency; study of personality types in deviant behavior.
- **Cr 566** SOCIOLOGY OF CRIME AND DELINQUENCY. Three credit hours. Social organization and a sociological perspective on the crime complex.

**OTHER REQUIRED COURSES:**

In addition to the four basic courses, the following five courses are also required:

- **Cr 521** JUVENILE DELINQUENCY AND THE JUVENILE COURT. Two credit hours. Studies involving dynamics of juvenile delinquency and juvenile justice systems reaction to it. OR

- **CJ 221** JUVENILE JUSTICE IN A CHANGING SOCIETY. Three credit hours. Juvenile Court philosophy and practices; federal and state legislation; current trends and development of standards; alternatives to incarceration.

- **Cr 510** LEGAL ASPECTS OF CORRECTIONS. Two credit hours. Classroom instruction in the laws which directly relate to the field of corrections. Explanation of recent Supreme Court decisions of importance to corrections; interpretation of the lawyer's role in relation to client and correctional workers at all levels.

- **Cr 540** CORRECTIONAL ADMINISTRATION. Two credit hours. Management problems in corrections, including budget, personnel, public relations, etc.

- **Cr 580** INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom.) Two credit hours. Directed effort in field observation, case analysis, special readings or data evaluation for program analysis or re-planning. May be taken concurrently with Cr 590.
Graduate School

Cr 590  **INTERNSHIP IN CORRECTIONS.** (Non-classroom.) Two credit hours. Supervised "on-the-job" training. Three hundred hours placement in a correctional setting. Taken as the final course in the program or concurrently with Cr 580.

**ELECTIVE COURSES:**

A selection of courses is available in corrections and other behavioral sciences as electives to fill out the final hours of the M.S. in corrections program:

CJ 210  **BASIC CONSTITUTIONAL LAW.** Three credit hours.
CJ 230  **THE AMERICAN COURTS.** Three credit hours.
CJ 260  **CURRENT ISSUES IN CRIMINAL JUSTICE.** Three credit hours.
CJ 265  **OVERVIEW OF CONTEMPORARY CORRECTIONS.** Three credit hours.
Cr 518  **SEMINAR: BLACK PERSPECTIVES IN CORRECTIONS.** Two credit hours.
Cr 524  **PROBATION AND PAROLE THEORY AND PRACTICE.** Two credit hours.
Cr 533  **INTERVIEWING AND COUNSELING IN CORRECTIONS.** Two credit hours.
Cr 534  **RATIONAL SELF COUNSELING.** Two credit hours.
Cr 537  **ADVANCED CORRECTIONAL COUNSELING.** Two credit hours.
Cr 541  **DIVERSION AND THE CRIMINAL JUSTICE SYSTEM.** Two credit hours.
Cr 542  **ROLE OF CORRECTIONAL ARCHITECTURE IN CRIMINAL JUSTICE.** Two credit hours.
Cr 544  **CRIMES AGAINST THE ELDERLY.** Two credit hours.
Cr 550  **ALCOHOL AND CRIMINALITY.** Two credit hours.
Cr 554  **WOMEN IN CORRECTION.** Two credit hours.
Cr 560  **CONTEMPORARY ISSUES IN CRIMINAL JUSTICE.** Two credit hours.
Cr 576  **PSYCHOLOGY OF DELINQUENCY.** Two credit hours.
Cr 581  **CORRECTIONAL AND SOCIAL RESEARCH.** Two credit hours.
Ed 273  **EDUCATING EXCEPTIONAL CHILDREN.** Two credit hours.
Ed 507  **EDUCATIONAL RESEARCH.** Three credit hours.
Ed 510  **STATISTICAL TECHNIQUES.** Three credit hours.
Ed 579  **PSYCHOLOGICAL AND ACHIEVEMENT TESTS.** Two credit hours.
Ps 232  **CHILD PSYCHOLOGY.** Two credit hours.
Ps 233  **adolescent psychology.** Two or three credit hours.
Ps 261  **SOCIAL PSYCHOLOGY.** Two credit hours.
Ps 277  **ABNORMAL PSYCHOLOGY.** Two or three credit hours.
Ps 463  **THEORIES OF PERSONALITY.** Two or three credit hours.
Ps 464  **THEORIES OF PERSONALITY II.** Two or three credit hours.
Ps 647  **CLINICAL STUDIES: THE EMOTIONALLY DISTURBED CHILD.** Two credit hours.
So 222  **PRINCIPLES OF SOCIAL CASE WORK.** Three credit hours.
Graduate School

Internship

The Graduate School will arrange for students completing the M.S. in corrections to take specialized training in facilities located near their homes. A minimum of three hundred hours of on-the-job training is necessary to fulfill degree requirements.

The student must arrange for an internship through the Director of the corrections program.

An Internship Fee of $125.00 to cover expenses in the administration of the internship is charged each student registering for Cr 590 Internship in Corrections.

THE MASTER OF EDUCATION

The Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators actually engaged in school work. It has one basic aim: stimulating better teaching wherever the influence of the successful candidate may extend, whether it be in an individual classroom, an entire school or a whole school system.

Accordingly, this degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within the particular sphere of his influence by satisfactorily completing a program of graduate work designed to give these characteristics:

1. Broad knowledge of the principles and techniques of education in modern society.
2. Specific knowledge of one major area of the field of education.
3. Essential understandings and skills necessary for intelligent consumption of educational research.

Requirements for the degree of Master of Education are specified with certain basic considerations in mind:

1. Sufficient flexibility is necessary to care adequately for the particular needs of the in-service educator who enrolls for the degree.
2. Graduate programs must be so planned as to insure the student's attaining a comprehensive knowledge of professional theory and practice in the principal areas of the field; a detailed knowledge of at least one major area of specialization—for high school teachers this area may be an appropriate academic field; and capability in the skills and knowledge necessary for intelligent comprehension and use of educational research.

To insure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs each of four general survey courses (or alternate courses as indicated) designed, in their whole, to provide integrated coverage of the broad field of education. These courses are:

Ed 501 PHILOSOPHY OF EDUCATION. Three credit hours. (Montessori students take Ed 641 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH in lieu of 501.) Ed 502 HISTORY OF AMERICAN EDUCATION may be taken in place of Ed 501.

Ed 503 ADVANCED EDUCATIONAL PSYCHOLOGY. Three credit hours. (Montessori students may substitute Ed/Ps 646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD for Ed 503 as appropriate.)

Ed 505 EDUCATIONAL ADMINISTRATION. Three credit hours. (Students in guidance must take Ed 537 ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES (2) in lieu of 505.)

Ed 507 EDUCATIONAL RESEARCH. Three (two/one) credit hours.

To insure their mastery of a particular area of education, candidates must include in their programs a concentration of at least twelve credit hours in one of the following areas of concentration:
Graduate School

Administration, guidance, elementary education, secondary education, physical education, learning and behavior disorders, the moderately, severely, and profoundly retarded, Montessori education, computer science, reading specialist, instructional service specialist, educational media specialist, personnel training, education and development, school social work, art, biology, business, chemistry, classics, communication arts, English, history-political science, mathematics, French, German, Spanish, philosophy, psychology, theology, and music.

Those interested in the M.Ed. program may obtain brochures covering specifics of concentrations from the Graduate School office. Separate folders are available for concentrations in educational administration, Montessori education, reading specialist, M.S.P.R., educational media, personnel training, education, and development, and computer science.

A minimum of thirty hours is required for the degree of Master of Education. These shall be distributed as follows:
1. General surveys in education, twelve credit hours.
2. Concentration, twelve credit hours.
3. Pertinent electives, six credit hours.

The degree will be awarded only to candidates who have passed an extensive written examination covering their particular field of concentration (administration, guidance, etc.) or over the four general survey courses in education if they have concentrated in a subject matter field or in elementary or secondary education. Students in guidance or educational media may apply for a waiver of comprehensive examination and replace it with an extended practicum if approved by the Director of the program.

Should the student fail the comprehensive examination he may repeat it only once.

Note: The University is not obliged to recommend certification of any type on the basis of the completion of a Master of Education Degree or specific course work in education. Students must also meet leadership, communication, and character requirements of the State Department of Education beyond academic requirements for each specific certificate.

THE MASTER OF BUSINESS ADMINISTRATION

The degree of Master of Business Administration is a professional degree designed to meet the needs of persons in industry for training which will ready them for increasing executive responsibilities.

Accordingly, this degree is awarded to the candidate who has demonstrated capacity for leadership in the field of business by satisfactorily completing a graduate program designed to give him the following characteristics:

1. Broad knowledge of the principles and techniques of business administration.
2. Specific knowledge of one of the major phases of business administration.
3. Essential understandings and skills necessary for intelligent consumption of research in the fields of business.

Students meeting grade requirements may be admitted to the M.B.A. program on one of two bases:

1. Undergraduate degree in business administration which included the prerequisite courses (or equivalents) listed below.
2. Undergraduate non-business degree. Business administration course deficiencies may be removed by an extended graduate program, including the following one semester prerequisite courses: BA 501 Basic Economics (three credit hours); BA 502 Introduction to Quantitative Methods (two credit hours); BA 503 Financial Accounting (four credit hours); BA 505 Basic Marketing (two credit hours); BA 506
Graduate School

Basic Statistics (two credit hours); BA 507 Corporate Finance (two credit hours) or their equivalents, as appropriate. Prerequisite courses are generally open only to graduate students with undergraduate deficiencies.

All M.B.A. degree applicants must take the Graduate Management Admissions Test. Applicants need to arrange to take the test prior to admission. Test application forms may be obtained from Xavier's M.B.A. Office or by writing directly to the Educational Testing Service, Box 966, Princeton, New Jersey 08540.

To insure comprehensiveness in their programs for the degree of Master of Business Administration, all candidates must include in their programs each of six general survey courses designed, in their whole, to provide integrated coverage of the broad business field. These courses are:

BA 511 **ECONOMIC ENVIRONMENT.** Three credit hours.

BA 512 **QUANTITATIVE BUSINESS METHODS.** Three credit hours.

BA 513 **MANAGERIAL ACCOUNTING.** Three credit hours.

BA 514 **MANAGEMENT OF ORGANIZATIONS.** Three credit hours.

BA 515 **MARKETING STRATEGY.** Three credit hours.

BA 516 **PROBLEMS IN BUSINESS FINANCE.** Three credit hours.

To insure their mastery of a particular area of business administration, candidates will ordinarily include in their programs a concentration of at least nine credit hours in one of the following areas of concentration:

- Accounting
- Finance
- Personnel
- Management
- Marketing
- Advanced Business Economics
- Quantitative Methods
- Industrial Management
- Multinational Business
- Taxation

**Management Information Systems**

As a capstone to his program, the candidate must include the conference-type seminar, BA 699. This will assist him in marshalling his knowledge of the business field in the solution of specific problems. A student must have at least twenty-one graduate hours including all of the core courses before taking this course.

A minimum of thirty-three graduate hours is required for the M.B.A. These shall ordinarily be distributed as follows:

1. Eighteen hours in the six core areas.
2. At least nine hours in a functional area of concentration.
3. Three hours in Seminar: Business Administration Problems.

Courses below the 500-level may not be used in the Master of Business Administration program toward the degree without special approval from the Dean of the School of Business Administration.
MASTER OF HOSPITAL AND HEALTH ADMINISTRATION

The Xavier University graduate program in Hospital and Health Administration is organized to prepare individuals for a career in hospital and health services administration. Academic work and field experiences are designed to develop the conceptual, analytic, and interpersonal skills and competencies necessary to respond under conditions of continuous change and increasing uncertainty in the environment.

Students are accepted for admission to the program from a variety of academic backgrounds and work experiences. While an undergraduate preparation should ideally include exposure to economics, social and behavioral sciences, and the arts, no specific major is required. However, the following courses are required prerequisites for our program and must be completed before a candidate embarks upon graduate studies.

- Accounting ........................................... 3 credit hours
- Management or Economics .......................... 3 credit hours
- Social Sciences (Ex.: Sociology,
  Political Science, etc.) .............................. 6 credit hours

The course of study covers two calendar years including sixteen (16) months of didactic study and eight (8) months practicum in an administrative residency under the preceptorship of the chief executive officer of a health care facility.

To fulfill the requirements for the M.H.A. degree, a total of sixty (60) graduate credit hours must be completed, fifty (50) hours of course work and ten (10) hours of practicum and thesis. Of the fifty hours, thirty hours are required course work. Twenty (20) hours of electives may be taken as a concentration in one of the component areas or as general studies selecting courses from several components, other departments of the University, or at other universities in the Greater Cincinnati area through the Consortium of Colleges and Universities (with permission of an advisor).

I. Health Care Settings and Systems
   - Health Care Organization
   - Current Trends in Medicine
   - Wellness and Health Care
   - Aging in our Society
   - Management of Ambulatory Care Facilities
   - Rural Health Care Delivery
   - Comparative Health Systems

II. Strategic Planning/Policy
    - Theory in Planning/Strategic Management
    - Issues, Methods and Cases in Strategic Management and Planning
    - Politics in Health Care
    - Diversification Options

III. Human Resources Administration
    - Human Resources Management for Health Administrators
    - Problems in Labor Relations
    - Advanced Organizational Development

IV. Legal, Ethical, Professional Issues
    - Health Care Legal Aspects
    - Medical-Moral Issues
    - Risk Management
Graduate School

V. Information Processing and Quantitative Techniques
   * Health Information Systems
   * Quantitative Techniques for Health Administrators
   * Hospital Material Management
   * Health Care Marketing Research
   * Institutional and Community Analysis for Health Care Management
   * Hospital Architecture and Construction

VI. Financial Management
   * Health Care Finance I
   * Health Care Finance II

VII. Integration and Synthesis
   * Seminar: Health Care Administration
   * Practicum in Executive Development I
   * Organizational and Departmental Analysis
   * Thesis Project

*Required Courses

Gerontological Administration

This program is recognized by the Ohio State Board of Examiners of Nursing Home Administrators as having fulfilled the requirements of sections (A) (5) and (A) (6) of Rule 4751-1-05 of the Ohio Administrative Code (OAC). As such, candidates completing this program may sit for the licensure exam immediately after receipt of the degree.

This is a special concentration in Gerontological Administration. The candidate is required to complete the thirty hours of required course work as designated. However, within the twenty (20) hours of electives, nine (9) hours must concentrate in gerontological studies.

Gerontological Courses (9 credit hours)

Aging in our Society .......................................................... 3 credit hours
Biography of Aging, Psychology of Aging, Sociology of Aging

Administration of Agencies Serving the Aged .......................... 3 credit hours
Institutional Agencies, Community Agencies, Home Health Care Agencies

Administration of Institutions Serving the Aged ........................ 3 credit hours
Organization, Administration, Physical Plant

The Residency in Gerontology is a specially designed practicum.

Comprehensive Examinations

Comprehensive examinations are conducted after the student has been admitted to candidacy for the master's degree. Comprehensive examinations are written and oral evaluations conducted toward the end of the didactic portion of the program. These examinations are designed to give the faculty a better appreciation of the needs of the candidate as he/she proceeds in graduate studies.

Administrative Residency

Before receiving the degree of Master of Hospital and Health Administration (M.H.A.), all students must complete an administrative residency in a hospital and/or health care setting, unless specifically modified in writing by the Director of the program. Modifications will be made only when the student evidences equivalent experience prior to enrolling in the degree program. A student will ordinarily receive compensation from the hospital in which the residency is performed.
The residency provides a setting which allows the student to integrate theory and practice under the leadership of qualified preceptors. Typically, the student works directly with the preceptor, conducts management studies, departmental analysis, and observes the external relationships and impacts of the organization as it relates to the community.

All residencies are specifically designed to provide an environment for learning which fits the specific needs of the student. Example: Gerontological Administration students will spend the major portion of time in a nursing home, extended care facility, and independent living centers.

Master's Thesis

Each M.H.A. student is required to complete a Master's project or thesis as a condition for graduation. The project usually reflects an aspect important to both the student and preceptor with a final approval from the faculty advisor. The project may take the form of:

1. Hypothesis testing;
2. Management studies; or
3. Case studies analyzing organizational policy or program implementation processes.

Additional information about the program including tuition and fees appears in a special brochure available upon request from the graduate program in Hospital and Health Administration Office.

MASTER OF PUBLIC ADMINISTRATION

The degree of Master of Public Administration is a professional degree designed primarily for those working in the public and non-profit sectors who are either in a management position or plan to assume one in the future. As such, the focus of the program is on the development of appropriate conceptual, analytical, and behavioral skills needed to manage effectively in the public and non-profit sectors.

Admission into the graduate program in Public Administration is based upon two sets of criteria:

1. the applicant's undergraduate grade point average (G.P.A.); a review of the applicant's record of public service; the applicant's satisfactory score on the Miller Analogies Test (must be taken within the first six credit hours of graduate courses); and
2. the completion of at least one course each (or the equivalent) of statistics, a public administration survey course, and American Government, as prerequisites to the program.

A minimum of 36 hours is required for a Master of Public Administration degree. These shall ordinarily be distributed as follows:

1. 18 credit hours in six core courses
2. 12 credit hours in four elective courses
3. An internship (3 hours) and practicum (3 hours) required from individuals who have never worked in the public sector. These six credit hours are waived for those with experience in the public and non-profit sector.

To insure comprehensiveness in the program for the degree of Master of Public Administration, all candidates must include in their programs each of the six general survey courses designed, in their whole, to provide integrated coverage of the field of public administration. These courses are:

PA 530 PUBLIC PERSONNEL ADMINISTRATION. Three credit hours.
PA 540 POLITICS OF ADMINISTRATION. Three credit hours.
PA 550 PUBLIC BUDGETING AND ACCOUNTING. Three credit hours.
PA 630 POLICY ANALYSIS AND PROGRAM EVALUATION. Three credit hours.
Graduate School

PA 640  MANAGEMENT IN THE PUBLIC SECTOR. Three credit hours.

PA 699  APPLIED RESEARCH SEMINAR. Three credit hours.

As an outgrowth of PA 699, the Applied Research Seminar, all candidates for the M.P.A. degree are required to write a major research paper analyzing a significant problem in the public sector. For the in-career students, the expectation is that the problem will be related to the agency in which they work.

To insure the program leading to a Master of Public Administration provides, on an individualized basis, additional skills tailored to the managerial and organizational needs of the in-career student, twelve hours of electives are provided in order to allow for a concentration within, for example, one of the following:

- Public Management
- Personnel Administration
- Public Finance
- Policy Analysis
- Computer Science
- Quantitative Methods
- Economics

While the graduate program in Public Administration is designed primarily for the practitioner, on a limited basis, exceptional post-baccalaureate, pre-career students (those with no prior experience in the public sector), will be allowed into the program.

In addition to all of the course work, these students will be required to attend a bi-weekly Practicum and fulfill an internship with a public or non-profit agency. Since all of the courses in the program are offered either in the evening or on a Saturday, the student may complete their internship on a part-time basis during the academic year, or on a full-time basis (fifteen weeks) during the summer.

Individuals interested in learning more about the program, specifically scheduling of classes, financial assistance, and fees, should contact the director of the graduate program in Public Administration at 961-3770.
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*Beyond his duties as Archivist to the University, Rev. Lee Bennis, S.J. brings with him distinguished degrees in History from Loyola, Duke, and Xavier, as well as study at Georgetown and Jesuitenkolleg in Austria. Since 1967 he has been a guiding force of the American History curriculum."
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Dr. Napoleon Bryant's interest in education does not stop with Xavier's education majors. As an active member of several professional organizations he lectures and conducts workshops at area schools to help elementary and secondary teachers refine their classroom strategies. Teaching others to teach well, as in this NASA workshop at Xavier, is a major goal in this professor's professional life.
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Cecilia Middendorf, a Xavier staff member for more than 32 years, greets students and faculty members with a courteous, friendly smile while dispensing much needed information.
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Braving a mall filled with snow instead of the usual crowd of students, these few trek to the University Center for a warm cup of coffee, a dash of comradery, and some good conversation—until the next class forces them out again.
Jesuit Educational Association
American Colleges and Universities

Georgetown University  (1789)*
Washington, District of Columbia 20007

St. Louis University  (1818)
St. Louis, Missouri 63103

Spring Hill College  (1830)
Mobile, Alabama 36608

Xavier University  (1831)
Cincinnati, Ohio 45207

Fordham University  (1841)
Bronx, New York 10458

College of the Holy Cross  (1843)
Worcester, Massachusetts 01610

St. Joseph's University  (1851)
Philadelphia, Pennsylvania 19131

University of Santa Clara  (1851)
Santa Clara, California 95053

Loyola College  (1852)
Baltimore, Maryland 21210

University of San Francisco  (1855)
San Francisco, California 94117

Boston College  (1863)
Boston, Massachusetts 02167

John Carroll University  (1866)
Cleveland, Ohio 44118

Canisius College  (1870)
Buffalo, New York 14208

Loyola University of Chicago  (1870)
Chicago, Illinois 60626

St. Peter's College  (1872)
Jersey City, New Jersey 07306

Regis College  (1877)
Denver, Colorado 80221

University of Detroit  (1877)
Detroit, Michigan 48221

Creighton University  (1878)
Omaha, Nebraska 68131

Marquette University  (1881)
Milwaukee, Wisconsin 53233

Gonzaga University  (1887)
Spokane, Washington 99202

Seattle University  (1891)
Seattle, Washington 98122

Rockhurst College  (1910)
Kansas City, Missouri 64110

Loyola Marymount University  (1911)
Los Angeles, California 90045
Gordon Jump (Arthur Carlson of "WKRP in Cincinnati") as a guest on WVXU's Liveline program with host Larry Ashcraft (engineer in background is Xavier student Michelle Gibson Diagne). "Liveline" is the station's daily issues-oriented call-in program emanating from the WVXU studios. The show, demonstrating ever-increasing ratings, is "must" listening for nearly all area politicians, media people, and other public officials. In its nearly two-year run "Liveline" has featured debates among political figures, Presidential candidates, authors, UFO experts, and hundreds of other controversial persons and topics. "Liveline" airs daily at 10 a.m. on WVXU, 91.7 FM.
"To keep Xavier's future continuous with its past, we shall hold fast to those values that enable us to provide meaning and purpose... and to expand the intellect without diminishing the spirit..."

Rev. Robert W. Mulligan, S.J
President, Xavier University, 1972-1982

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(513) 745-3000