1978-1980 Xavier University College of Arts and Sciences, College of Business Administration, The College of Continuing Education, Graduate School Course Catalog

Xavier University, Cincinnati, OH

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Telephone: (Area 513) 745-3000

Admission blanks and entrance requirements:
Dean of Admissions

Alumni affairs:
Executive Director, X. U. Alumni Association

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

Counselling Services:
Director of Counselling Services

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

Freshman interests:
The Assistant 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 Student Housing

Refunds:
The Bursar

Reservation fees:
Dean of Admissions

Room reservations:
Director of Housing

Scholars' Program:
Director of Scholars' Program

Student health:
Chairman 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 Registrar

Tuition and payment of bills:
The Bursar

Veterans' education:
Director of Veterans' Education

Catalogue 1978-1980
The College of Arts and Sciences
The College of Business Administration
The College of Continuing Education
The Graduate School
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<td>Jan. 18</td>
<td>Instruction begins, undergraduate day colleges, 8:30 A.M.</td>
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<td>Last day for late registration or changes in registration, day undergraduate colleges. Last day for course changes, College of Continuing Education.</td>
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<td>Mar. 9</td>
<td>Mid-semester grades for undergraduate students—day and evening—due in respective offices by 5:00 P.M. Final date for filing applications for degrees to be granted in May, all divisions.</td>
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<td>Apr. 12</td>
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<td>Second Summer Session begins, all divisions.</td>
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<td>Second Summer Session ends, all divisions.</td>
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### UNIVERSITY CALENDAR 1979-80

#### Fall Semester

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<td>Mall registration, Graduate School.</td>
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<tr>
<td>Aug. 25, Saturday</td>
<td></td>
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<tr>
<td>Aug. 29, Wednesday</td>
<td>Registration, College of Continuing Education, 12:00-8:00 P.M.</td>
</tr>
<tr>
<td>Aug. 30, Thursday</td>
<td>Registration local seniors, 9:00-11:30 A.M.</td>
</tr>
<tr>
<td>Aug. 31, Friday</td>
<td>Registration local juniors, 1:00-3:30 P.M.</td>
</tr>
<tr>
<td></td>
<td>Registration, College of Continuing Education, 12:00-8:00 P.M.</td>
</tr>
<tr>
<td>Sept. 1, Saturday</td>
<td>Registration, Graduate School, 9:00 A.M.-2:00 P.M.</td>
</tr>
<tr>
<td></td>
<td>Registration, College of Continuing Education, 12:00-3:00 P.M.</td>
</tr>
<tr>
<td>Sept. 4, Tuesday</td>
<td>Registration, out-of-town sophomores, juniors, seniors, 8:30-12:00 Noon; 6:00-8:00 P.M. Freshmen only, as assigned, 1:00-4:00 P.M. Registration, College of Continuing Education, 12:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Sept. 5, Wednesday</td>
<td>Instruction begins, all divisions.</td>
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<tr>
<td>Sept. 12, Wednesday</td>
<td>Last day for late registration or changes in registration in the undergraduate day colleges. Last day for course changes, College of Continuing Education students only.</td>
</tr>
<tr>
<td>Sept. 16, Sunday</td>
<td>Mass of the Holy Spirit, 5:00 P.M.</td>
</tr>
<tr>
<td>Oct. 15, Monday</td>
<td>Autumn holiday, day divisions. Evening and Graduate classes meet.</td>
</tr>
<tr>
<td>Oct. 20, Saturday</td>
<td>Graduate School, Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.</td>
</tr>
<tr>
<td>Oct. 22, Monday</td>
<td>Mid-semester grades for undergraduate students—day and evening—due in respective offices by 5:00 P.M.</td>
</tr>
<tr>
<td>Nov. 1, Thursday</td>
<td>All Saints Day. (Not a University holiday.)</td>
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<tr>
<td>Nov. 16, Friday</td>
<td>Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
</tr>
<tr>
<td>Nov. 21, Wednesday</td>
<td>Thanksgiving Vacation begins—holiday all divisions.</td>
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<tr>
<td>Nov. 26, Monday</td>
<td>Classes resume, all divisions, 8:30 A.M.</td>
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<tr>
<td>Nov. 28, Wednesday</td>
<td>Preregistration, undergraduate colleges, day division.</td>
</tr>
<tr>
<td>Dec. 1, Saturday</td>
<td>M.Ed. and M.B.A. Comprehensive Examinations.</td>
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<tr>
<td>Dec. 7, Friday</td>
<td>Final date for submission of theses for December graduates, undergraduate colleges.</td>
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<tr>
<td>Dec. 8, Saturday</td>
<td>Feast of the Immaculate Conception. (Not a University holiday). Senior Comprehensive Exams, undergraduate colleges.</td>
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#### Spring Semester 1980

<table>
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<th>Date</th>
<th>Events</th>
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<td>Semester Examinations, day undergraduate colleges.</td>
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<td>Dec. 21, Friday</td>
<td></td>
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<tr>
<td>Dec. 17, Monday</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
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<tr>
<td>Dec. 22, Saturday</td>
<td>Christmas Vacation begins after last class. End of 1st Semester, all divisions.</td>
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<tr>
<td>Jan. 4, Friday</td>
<td></td>
</tr>
<tr>
<td>Jan. 11, Friday</td>
<td>Registration, College of Continuing Education, 12:00-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 12, Saturday</td>
<td>Registration, College of Continuing Education, 12:00-3:00 P.M.</td>
</tr>
<tr>
<td>Jan. 14, Monday</td>
<td>Registration, local seniors, 9:00-11:30 A.M. Registration, local juniors, 1:00-3:30 P.M. Registration, College of Continuing Education, 12:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 15, Tuesday</td>
<td>Registration, local sophomores, 9:00-11:30 A.M. Registration, local freshmen, 1:00-3:30 P.M. Registration, College of Continuing Education, 12:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 16, Wednesday</td>
<td>Instruction begins, Graduate School and College of Continuing Education. Registration, out-of-town undergraduates, 9:00-11:30 A.M.; 1:00-3:30 P.M.</td>
</tr>
<tr>
<td>Jan. 17, Thursday</td>
<td>Instruction begins, undergraduate day colleges, 8:30 A.M.</td>
</tr>
<tr>
<td>Jan. 24, Thursday</td>
<td>Last day for late registration or changes in registration, day undergraduate colleges. Last day for course changes, College of Continuing Education.</td>
</tr>
<tr>
<td>Mar. 7, Friday</td>
<td>Mid-semester grades for undergraduate students—day and evening—due in respective offices by 5:00 P.M. Final date for filing applications for degrees to be granted in May, all divisions.</td>
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<tr>
<td>Mar. 10, Monday</td>
<td>Spring Vacation, All Divisions.</td>
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<tr>
<td>Mar. 14, Friday</td>
<td></td>
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<tr>
<td>Mar. 15, Saturday</td>
<td>Graduate School Foreign Language Examinations, and FORTRAN Examination 2:00 P.M. All Saturday classes meet.</td>
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<tr>
<td>Apr. 3, Thursday</td>
<td>Easter Vacation begins, holiday, all divisions.</td>
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<tr>
<td>Apr. 7, Monday</td>
<td>Classes resume, all divisions, 8:30 A.M. Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
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<tr>
<td>Apr. 14, Monday</td>
<td>Honors Convocation, 1:30 P.M.</td>
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Summer Sessions 1980

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<td>Apr. 18, Friday through</td>
<td>Pre-registration, day undergraduate colleges. Early registration, College of Continuing Education students.</td>
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<td>Apr. 26, Saturday through</td>
<td>Senior Comprehensive Examinations</td>
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<td>Apr. 30, Wednesday through</td>
<td>M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.</td>
</tr>
<tr>
<td>Apr. 30, Wednesday through</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
</tr>
<tr>
<td>May 6, Tuesday through</td>
<td>Semester Examinations, day undergraduate colleges.</td>
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<tr>
<td>May 9, Friday through</td>
<td>End of Spring semester after last class, all divisions</td>
</tr>
<tr>
<td>May 17, Saturday through</td>
<td>Commencement Exercises, all undergraduate colleges.</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 1840 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, over 130 years later. For example, a mercantile program was added to the curriculum in 1840 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 and the College of Continuing Education—provide 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 65 acre 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 co-educational (1970) and implemented a host of new academic programs, facilities, community projects and student services.

**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 which cover a wide range of areas: politics, the performing arts, athletics and social life, to name a few.

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.
The University

The 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 fill human emotions and to make moral judgments 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 expanse 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.

The 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 the 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.

The 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 cultural and practical value. This college renders particular service to those who wish to carry college work toward a degree while working during the day and to 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. It is a career oriented program. An associate degree is also offered in Nuclear Medical Technology.

The College offers also the Bachelor of Science in Business Administration (General Business) 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

The Graduate School has offered programs leading to graduate degrees since 1946. 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.

The Graduate Program in Hospital and Health Administration is accredited by the Accrediting Commission on Graduate Education for Hospital 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; Association for Continuing Higher Education; The American College Public Relations Association; 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; 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.

Buildings and Facilities

Location

Xavier University is favorably 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.

After Hall

After Hall, the main classroom building on the Xavier Campus, is the center for academic affairs. WXXM-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 After 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 building houses the following: President’s office, Student Development offices, Career Planning and Placement Office, Student Financial Aid Office, Post Office, Student Senate offices, Bookstore, Cafeteria, Muskeeteer Inn, Theatre, Games Room, and various meeting rooms.
The University

Library

The McDonald Memorial Library is a modern building which, with open stacks, allows its readers free access to most of its collections. The building has 740 seats and a volume capacity of 350,000. Good lighting, air conditioning, comfortable furniture and elevator service combine to provide a pleasant place for study and research. Readers are well served by a competent staff of librarians and associates.

The collection numbers almost 220,000 volumes of books, periodicals and microform. Special collections include incunabula, 18th Century and other early printed works, medieval manuscripts, the Williams and Friel Bible collections, the manuscripts of Francis J. Finn, S.J., letters of several U.S. Presidents, letters of Joyce Kilmer, modern limited and first editions and the University Archives.

Xavier students have borrowing privileges at several Cincinnati and Northern Kentucky libraries because of the McDonald Library's membership in the Greater Cincinnati Library Consortium.

The Paul L. O'Connor, S.J. Sports Center

The Paul L. O'Connor, S.J., Sports Center, located between the Fieldhouse and Victory Parkway, includes a swimming pool, squash, handball courts, a multipurpose gymnasium, gymnastic equipment, classrooms for the Physical Education Department and offices for the Athletic Department.

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 4000 spectators.

Student Housing

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

Out-of-town students must live on campus. Exceptions to this regulation are granted by the Director of Resident Life. Cincinnati area students are invited to live in a residence hall.

Brockman Hall

The Brockman Hall dormitory 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, microbiology, and ecologic. Advanced students use research space at the Albers Biological laboratories, which are particularly well suited for investigations dealing with the electrical activity of the senses, the nervous system, and the hearts of various animals.

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 Tectronix oscilloscopes, Grass stimulators, electronencephalographs, and polygraphs; activity recorders, environmental growth chambers, Warburg apparatus, and sterilizing devices.

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 laboratory, for research in seismology, at present uses some of the facilities of the physics laboratories in addition to office, library and dark room in Fisher Lodge. For the purpose of advancing the science of seismology, Xavier University maintains a first class station and observatory. The station is located on a farm approximately sixteen miles east of the University. It 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 the Logan Building. There are two large laboratories for General Chemistry, one large laboratory for Organic Chemistry, two laboratories for Physical Chemistry, a large research laboratory and several research laboratories. In addition there are five small rooms housing special equipment which are used by more than one course. The department has an N.M.R. Spectrometer, a Mass Spectrometer, a Polarograph, Emission Spectrograph, several Gas Chromatographs, a High Pressure Liquid Chromatograph, Differential Scanning Calorimeter and a variety of lesser instruments to give the students experience with a large number of different laboratory techniques. The department is well equipped for research at the undergraduate and graduate levels.

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

The Statistical Laboratory of the Department of Psychology is located on the third floor of Eiel 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 Santon 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 categorized 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 administration. A Coordinator for Academic Computing, a Senior Consultant, and several student programmers are available to help users. No charges are made for these services.

Batch mode computing is handled by an IBM 360/50 with 512K of core memory. The FORTRAN, PL/I, COBOL, and ASSEMBLER languages are supported, and a broad range of library programs and subroutines are available.

Time sharing computing is accomplished with a PDP-11/45 computer which supports the BASIC language. Twenty-one ports are available in the Academic Computing Laboratory (Schmidt 303) which is open more than seventy hours each week. Peripheral devices include cathode ray tubes, DEC-writers, a printer, and a plotter. An extensive library of programs 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 provide instruction in operation and classroom use of equipment. It serves primarily the students 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, counselling, and psychotherapy are the fundamental services of the Center. Undergraduate full-time students 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 travelling exhibitions. It was opened in the summer of 1986.
Student Services

Bookstore

The Xavier Bookstore is in the University Center Building. In addition to all required books and supplies, the Bookstore carries a large 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

R.O.T.C. offices are located in St. Barbara Hall on Winding Way. R.O.T.C. is open to both men and women students.

Breen Lodge

Breen Lodge, Xavier's Educational Resource and Women's Center, offers an alternative community lifestyle to five selected upperclass women. The Lodge provides the university with Free University, many films, programs and a hospitable atmosphere for lectures and leisure.

Pled Piper

The Pled Piper, a university owned neighborhood house, is run by students for students. Working in conjunction with Campus Ministry and Student Activities, the students initiate programs to complement dorm and academic life. The Piper Coffeehouse Shows feature both professional performers and campus talent.

Campus Parking

All cars on campus must carry a currently valid Xavier University parking permit. Student parking is available 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 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.

Student Services

Academic Counseling

Deans and Associate Deans of the Colleges of Arts and Sciences, Business Administration, and Continuing Education serve as counselors in their respective colleges. They are assisted by an Academic Counselor. The Academic Counseling Office for personal academic counseling is located in Aller 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.

Campus Ministry

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

Most of the campus ministry staff reside in the dorms for greater accessibility to students. Among the services sponsored by campus ministry are liturgical events, retreats, marriage counseling, speakers and special events, and personal counseling.

Greater Cincinnati Consortium of Colleges and Universities

Eleven 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 Atheneum of Ohio, Cincinnati Technical College, Chatfield College, College of Mount St. Joseph, Edgecliff College, Hebrew Union College, Miami University, Northern Kentucky State College, 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 undergraduate and 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 newsletters for alumni (available by subscription); and on-campus recruitment interview scheduling for full-time seniors and graduate students.

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.

Student Government and Activities

The Office of Student Development looks out for 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 90 student activities and organizations from which to choose, Xavier students can satisfy the variety of interests, hobbies, and talents they would like to express and pursue. Full information on student government and student activities may be found in the Student Handbook available from the Office of Student Development.

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. It 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

Intramural programs are carried on in a variety of sports. Activities are carried on in baseball, basketball, bowling, handball, touch football, water sports, tennis, and other sports.

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 see the need for poise and for 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 the 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, women's basketball, women's volleyball, and swimming. These activities are administered by the Athletic Director, who is advised by the Athletic Board and who is responsible to the Vice President and Dean for Student Development.

Participants in intercollegiate athletics, as in other co-curricular activities, must be bona fide students in good standing. They will 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 formally on scholastic probation.
Privacy Rights of Parents and Students

The Family Education & 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 & 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 following areas: 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.

Official Responsible for Maintenance of Records:

<table>
<thead>
<tr>
<th>Records</th>
<th>Official's Name &amp; Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>Mr. Rene Durand, Dean of Admissions</td>
</tr>
<tr>
<td>Academic</td>
<td>Dr. Robert H. Helmes, Dean, College of Continuing Education</td>
</tr>
<tr>
<td>Housing</td>
<td>Mr. David A. Torn, Director of Resident Life</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>Mr. Robert F. Sprague, Director of Student Financial Aid</td>
</tr>
<tr>
<td>Discipline</td>
<td>Mr. Roderick C. Scheurer, 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</td>
<td>Dr. David Hellkamp, Director, Counseling Center</td>
</tr>
<tr>
<td>Counseling</td>
<td>Mr. James McCafferty, Director of Athletics</td>
</tr>
<tr>
<td>Athletic</td>
<td>Mrs. Louise Burke, Director of Career Planning and Placement</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.

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 are required when informal discussion fails to bring a resolution to the problem. The formal proceedings 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 parent 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 is ten cents (10¢) per page, per copy. The charge for transcripts is $2.00 per transcript. A representative of Xavier University will be present during the duplication to insure that complete and accurate copies are made and 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 athletes, dates of attendance, degrees awarded, special honors and awards, and the most recent 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. No deposit is required of College of Continuing Education applicants.

Admissions

Application for Admission

Application for admission to the undergraduate day College of Arts and Sciences or College of Business Administration is made on a special "Admissions Application Form" which can be obtained from the Office of Admissions. This completed form should be forwarded, together with a $15.00 application fee, to the Office of Admissions. The application 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 (ACT) should be forwarded to the Office of Admissions. A recommendation from a counselor or teacher is helpful and 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

Xavier University offers its educational opportunities to men and women who seek intellectual, personal, moral, and social growth. Students who have demonstrated past academic achievement and who show promise and aptitude for successful performance at Xavier, are invited and encouraged to apply for admission. 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.

To be eligible for admission a student must be the 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 four units of English, two units of math, one unit of science, one unit of history, and two units of a foreign language. 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. Single half units are acceptable only in those courses considered half-year subjects.

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 Examinations (ACT).

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 to the Dean, College of Continuing Education, for Continuing Education students.

Advanced Placement

Xavier University participates in the Advanced Placement Program of the College Entrance Examination Board, and on a limited basis in the C.E.E.B. College Level Examination Program. Students can earn valid academic credit that can fulfill requirements in certain curricular areas by obtaining satisfactory grades on these examinations.
Admission

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.

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. When the admission file is completed, if the student does not qualify for admission, his admission and registration are canceled.

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 institutions 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.

Foreign Students

Applicants from foreign countries must submit official documents in English translation of all completed the level of education required for university admission in the student's native country, 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 Admission's Office at least three months prior to the intended term of enrollment.

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. Transfer students may begin classes at the start of any term. Although there is no formal deadline for applying to Xavier, transfer students are encouraged to file all necessary credentials with the Admissions Office at least two weeks prior to the beginning of the term.

Transfer Students

Xavier University welcomes qualified transfer students from other institutions of higher education. In addition to the credentials required of freshman applicants, transfer students should have institutions attended. No applicant may disregard his previous college record and apply for admission to the University without completing all post-secondary coursework.
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 Director 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 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.

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 50% 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 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.

General fee (per semester) ............ $100.00

(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 use of the facilities of the Fr. O'Connor Sports Center.)

Identification Card (annually) ........ $10.00

Language audiovisual fee (to be paid by first and second year Modern Language students, per semester) ........ $10.00

Room, per semester, double occupancy

Brockman Hall .................. $350.00
Marion, Kuhlman, Husman, Ratterman Halls ...... $365.00

Additional charge per semester, for single occupancy for all, seniors and others, as available ................ $140.00

Room Equipment Damage and Improvement Fee (non-refundable) ........ $10.00

All rooms are equipped with a bed, desk, chair, and bed linen. 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, $415.00 per semester. (2) A nineteen-meal plan includes breakfast, lunch and dinner Monday through Friday with brunch and dinner Saturday and Sunday; cost, $440.00 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 undergraduate divisions to the last day of scheduled examinations of the same divisions.)

* Expenses listed are for the 1978-1979 academic year. Changes are made in these rates from time-to-time.
Financial Aid

Refunds (Undergraduate)*

A refund of tuition may be claimed in the case of withdrawal or dismissal. The University semester refund schedule is as follows:

- Before the first class meeting: 100% refund
- First day of class and 5 calendar days thereafter: 90% refund
- 7-13 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. Cf. 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. 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.

Students drafted or called to service as reservists will receive a 100% refund of tuition and a partial refund for the unused portion of their General Fee. At the time of application for this refund, the student’s ID card must be returned to the Treasurer’s office.

Financial Aid

SCHOLARSHIPS

Information on University sponsored scholarships is provided by the sources indicated upon request.

1. For Undergraduate, Day Division, Academic Scholarships: The Director of Financial Aid or Chairman, Scholarship Committee.
2. For The College of Continuing Education Scholarships: The Dean, the College of Continuing Education.
3. For Graduate Scholarships: The Dean, Graduate School (cf. p. 200.)
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 and Grants

Colleges of Art and Sciences and Business Administration

Xavier Achievement Scholarships

These scholarships are for full tuition and the general fee, and are awarded on a competitive basis to entering freshmen of superior ability and the highest academic achievement. All students who apply for admission and are approved before February 1 will be considered for these scholarships. In order to retain this scholarship for four years, the recipient must attain an average of 3.0 in freshman year and 3.25 thereafter.

Presidential Scholarships

These scholarships are awarded on a competitive basis to entering freshmen and transfer students of superior ability and high academic achievement. Scholarships will vary depending upon the student’s academic qualifications, financial need, and the availability of funds. All students who submit the College Scholarship Service Financial Aid Form and the Xavier Aid Application will be considered for these scholarships. A limited number of Presidential Scholarships are awarded solely on the basis of academic merit. The scholarship is renewable for each year of undergraduate study provided that the recipient resubmits the Financial Aid Form each year, and attains an average of 3.00 in the first year and 3.25 thereafter.

Expenses listed are for the 1978-1979 academic year. Changes are made in these rates from time-to-time.

University Scholarships

Competition is open to entering black students as well as those currently enrolled. The size of the award varies depending upon the number of qualified applicants, their financial need and the availability of funds. Black students who want to be considered for this scholarship should contact the Director of Financial Aid. These scholarships are renewable provided the recipient resubmits the Financial Aid Form, has need, and remains in academic good standing.

Upperclassmen Scholarships

These scholarships are awarded to students who have completed at least 28 hours at Xavier with a cumulative average of 3.25 or better, who have demonstrated financial need, and who have no other Xavier scholarship. Application for these scholarships should be made to the Financial Aid Office by April 15. The Financial Aid Form and The Xavier Aid Application must be submitted.

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. These scholarships can also be awarded to College of Continuing Education students.

Xavier University Grants

This grant program provides funds for students who have a financial need, but are not eligible for Xavier scholarships. In order to apply for Xavier Grants, a student must complete a Xavier Aid Application and College Scholarship Service Financial Aid Form.

Undergraduate Scholarship Regulations

Day Division

1. Achievement Scholarships are for full tuition and the general fee. Other scholarships apply to tuition alone. No scholarship, except the Fredin Memorial, may be used to cover the cost of room and board.
2. Scholarships are applicable to courses taken during the regular fall and spring semesters. They may not be applied to the cost of courses taken during the summer.
3. Only full-time students are eligible for scholarships.
4. Scholarships must be accepted for the year or years they are awarded. They may not be transferred by the holder and may not be resumed at will after having been relinquished.
5. 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 scholarship award.
6. All scholarships are awarded at the discretion of the Scholarship Committee of Xavier University. The Committee reserves the right to adjust the scholarship stipend in the event that 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. 23351.” For additional information, high school seniors should contact their guidance counselors or the Xavier University Military 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.
Financial Aid

GRANTS, LOANS, WORK-STUDY

Law Enforcement Education Program

Under the provisions of Section 406 of the Omnibus Crime Control and Safe Streets Act of 1965 (Public Law 90-351), Xavier University participates in the Law Enforcement Education Program. LEEP awards provide student loans and/or grants to public law enforcement personnel. For further information contact the Director of Student Aid, Xavier University.

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 four 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 an eligible course of study at Xavier University.
3. Have demonstrated a financial need according to each program's criteria.
4. Maintain "satisfactory academic progress", which is defined as not being suspended by Xavier University.
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 quarterly basis within nine months after the borrower ceases to be at least a half-time student. These loans carry a 3 percent interest on the unpaid balance during the repayment period. The loan must be repaid in accord with the terms specified in the promissory note. Under no conditions may the repayment period exceed ten years. For further details, communicate with the Director of Student Aid, Xavier University.

The College Work-Study Program

In the Economic Opportunity Act of 1964, Government funds are made 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 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 amount awarded to a student must be matched by some other type of financial aid provided either by the University, an outside scholarship, or other source.

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

Basic Education Opportunity Grants

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

The maximum award a student may receive is $1,600 minus the amount the student and his or her family are expected to contribute toward the cost of the student's education. Determination of the family contribution is not made by the educational institution.

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

SCHOLARSHIP FUNDS

The permanent scholarships that have been generously given to Xavier University in the past are listed below. Income from these scholarships is increased each year by gifts of annual scholarships. In addition, the University uses funds from its current income to make up the balance of these awards.

Scholarship List

Anonymous, $70,000
A scholarship fund—the gift of a friend of the University.

William F. Poland, S.J., Fund, about 1906, approximately $115,000
Fr. Poland established this fund from his patrimony at the time of the death of his parents.

Elizabeth Sullivan Scholarship, 1924, $3,000

Mary S. Shannon Scholarship Fund, 1925, $13,334

Weidner Family Scholarship, 1950, $5,000

This is a partial scholarship to be awarded preferably to a graduate of Saint Xavier High School.

Rev. James D. Foley, S.J., Scholarship (in his honor), $2,000

Mary Mohnlenhoff Scholarship (in memory), $2,000

Paston Play Scholarship, 1928, $100

The Ryan Sisters Scholarship, $3,000

Siedenbarg Scholarship, $2,000

Margaret Shea Scholarship, 1937, $3,500

Archbishop Mcnicholas Memorial Scholarship, 1940, $5,000

Mrs. F. W. Hinkle Memorial Scholarship, 1940, $5,000

The Ryan Sisters Memorial Scholarship, 1940, $5,000

Saint Xavier Church, Memorial Scholarship, 1940, $5,000

The four preceding scholarships were given on the occasion of the Quadricentennal Observation of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

Rev. James McCarthy, S.J., Scholarship, 1942, $3,468

This partial scholarship is to be given to a needy and deserving student in honor of Fr. James McCarthy, S.J. It was donated by the will of Mrs. Clara Pressler.

Xavier Student Council, 1942, $2,087.47

The proceeds from a World War II metal scrap drive conducted by the Student Council were donated for this scholarship.

Bernard H. Ludwig Scholarship, 1948, $2,000

A partial scholarship to be given preferably to some member of Saint Augustine's Parish, to be selected by the pastor of Saint Augustine's, Cincinnati.
Financial Aid

Charles A. Ciasens Scholarship, 1949, $3,576
A partial scholarship for any worthy poor student, preference to be given to a student of Saint Peter's Roman Catholic School, New Richmond, Ohio.

Blessed Virgin Mary Scholarship, $5,000
A partial scholarship established by an anonymous donor in honor of the Blessed Virgin Mary.

Rev. Albert Dierkes, S.J., Scholarship, $6,400
A partial scholarship established by an anonymous donor in memory of Fr. Dierkes.

Fred Tuke Scholarship, 1951, $10,000
A donation by Mr. Fred Tuke provided a full tuition scholarship.

Walter A. and George McDonald Fund
This fund, established in 1980 to honor Mr. and Mrs. Andrew J. McDonald provides income for a graduate assistant in the Department of Chemistry.

Walter A. and George McDonald Scholarship, $1,000

Dr. Edward McGrath Scholarship, 1956, $7,500.
A partial scholarship donated in memory of Dr. McGrath.

Lillian W. Ochs, $250

Class of 1931 Scholarship, 1956, $7,500
A half-tuition scholarship donated by the Class of 1931 on the occasion of the twenty-fifth anniversary of their graduation.

The Stephens L. and Margaret J. Blakely Scholarship, 1958
A partial tuition scholarship maintained by the annual contribution of Mr. John R. Blakely and Mrs. Jane B. Woodrough in honor of their parents. The scholarship is awarded to a pre-law student from Kenton County, Kentucky.

The Richard A. Jones Journalism Scholarship, 1960, $19,161.83
A bequest from the estate of Alma J. Snodgrass to the College of Continuing Education in memory of her father, Cincinnati newspaperman.

The Jesse K. Dunn Memorial Scholarship Fund, 1959, $7,000

The Frederick A. Hauck Physics Research Scholarship, 1962, $1,500 annually
This is an award to a student (or students) selected by the Department of Physics to pursue, on the undergraduate level, research projects commensurate with his (or their) intellectual promise.

The Matthew Ryan Family Scholarship, 1964, $10,000
Given at the request of the late Miss Margaret Ryan.

The Fredin Memorial Scholarships, 1964
These are annual awards for one or more students to pursue their studies in French in France.

Established from the bequest of Mlle. Aline Fredin in memory of her parents, See Modern Languages, Foreign Language FR 298.

The Mr. and Mrs. Theodore H. Oppenheim Scholarship Fund, 1966
A scholarship to be awarded at the discretion of the Scholarship Committee.

The Wilson J. (Woody) Sander Memorial Scholarship Fund, 1967, $15,700
This Scholarship Fund honors the memory of the late Mr. Sander, '34, whose service to his Alma Mater included chairmanship of the Athletic Board and the Alumni Living Endowment Fund.

The William V. Masterson, '41, Memorial Scholarship, $3,565
This memorial provides tuition assistance to an outstanding student in marketing for his senior year.

The Raymond L. Buse Memorial Scholarship Fund, $27,500
This memorial was established to perpetuate the memory of Raymond L. Buse, Sr., with the income to be awarded to a student selected by the Scholarship Committee.

The Reverend Paul L. O' Connor, S.J., Scholarship, 1971, $40,000
This scholarship was provided by an anonymous donor who wished to honor the President of Xavier University. It is intended that the income will assist worthy students selected by the Scholarship Committee.

The James H. and Marye S. Curran Memorial Scholarship Fund, 1971, $31,187.50
This scholarship was established in 1971 in accordance with the will of Mr. James H. Curran, member of the class of 1927. The income from this fund is to be used to finance a presidential scholarship designated as the James H. and Marye S. Curran Scholarship.

The Foster G. McGaw Scholarship
The Association of University Programs in Health Administration and the American College of Hospital Administrators provides this award. It is awarded each year to an entering graduate student who exhibits potential for making a significant contribution to the hospital administration profession. The scholarship pays $1,000 toward the student's expenses.

The Mary Manning Walsh Scholarship Fund, $1,000,000
The Mary Manning Walsh Scholarship Fund was established in 1968 by her husband, the late Thomas J. Walsh, with a gift in excess of $1,000,000.00. The income from this Fund is to be used for scholarships for worthy students unable to pay entirely for their education.

Edward F. Macke '98 Graduate Scholarship Endowment Fund, $50,000
The Edward F. Macke '98 Graduate Scholarship Endowment Fund provides scholarship assistance to graduate students at Xavier University. This Fund was established in 1969 with a gift of approximately $50,000.00 from the late Edward F. Macke.

The Fred F. Mackentepe Scholarship, 1971, $25,000
A bequest from the estate of Fred F. Mackentepe for scholarship use in the donor's name. The scholarship grants are awarded at the discretion of the Scholarship Committee.

The Reverend William P. Hetherington, S.J., Memorial Scholarship Fund, 1971
This Scholarship Fund honors the memory of the late Father Hetherington. The fund was initiated by the Booklovers Association, of which Father Hetherington was Moderator.

The Robert T. Rice, Jr., Memorial Scholarship Fund
This Fund honors the memory of the late Robert T. Rice, Jr., Class of 1969, who was killed in the line of duty in Viet Nam. The Fund was created by the family and friends.

The Ralph W. Chambers Memorial Scholarship Fund
This Fund honors the memory of the late Ralph W. Chambers, Class of 1948. The Fund was created by the family and friends.

The Rita Elsaaesser Harpenau Memorial Scholarship Fund
This Fund honors the memory of the late Mrs. Robert A. Harpenau (Rita Elsaaesser). The Fund was created by the family and friends.

The Edmund J. Bradley Memorial Fund
A fund of $87,000 was established in 1972 in accordance with the will of Mr. Edmund J. Bradley. The income from this fund is to be used to provide financial assistance to deserving students at the University in the field of science, preferably in the field of physics.

The Jack Currus Scholarship Fund, 1972, $10,000
A bequest from the estate of Mr. Jack Currus to provide scholarship assistance to worthy and needy students. The scholarship funds will be awarded by the Scholarship Committee.

The Rita Elsaaesser Harpenau Memorial Scholarship Fund, 1973, $50,000
This Fund honors the memory of Mrs. Robert A. Harpenau (Rita Elsaaesser). The fund was created by Mrs. Anthony C. Elsaaesser in memory of her daughter. The fund will assist underprivileged but capable students to attend Xavier University.

The Helen Hennigan Diehl-Thomas J. Klinehinst Scholarship Fund, $10,000
This scholarship was established in 1975 by St. Francis Hospital. It honors Mrs. Helen Hennigan Diehl and Mr. Thomas J. Klinehinst for the many years of dedicated and loyal service to the Hospital as members of the Board of Trustees and many auxiliary activities. Three Master of Health and Hospital Administration students will each receive $250.00 toward their educational expenses.

The Equitable Life Assurance Company Scholarship
This scholarship, made available through the Association of University Programs in Health Administration, is awarded by the Graduate Program in Hospital and Health Administration each year to an entering graduate student who exhibits potential for making a significant contribution to the hospital administration profession. The scholarship pays $1,000 toward the student's expenses.

Class of 1969 Scholarship, $3,034
This scholarship is designed to provide financial assistance to any needy students, preferably from socio-economic minority groups, who have sought all other means of financial aid and cannot begin or continue their college education without financial assistance. It is not to be allocated in strict accordance with academic achievement. The sole criterion is that the student be qualified for admission or that he be in good academic standing.
Financial Aid

Class of 1970 Scholarship, $2,629
This scholarship is to be awarded annually to a worthy student. The student must need financial assistance, must show better than average academic promise, and should espouse the ideals, aims, and goals of a Jesuit education. It may be awarded to any student regardless of race, creed, color, sex, or national origin. However, preference is to be given to sons or daughters of members of all Undergraduate Divisions of the Class of 1970.

Class of 1971 Scholarship
The 1971 Class Gift has been invested by the University as part of its scholarship portfolio. The principal will accrue interest for a period of ten years, and such interest will be added to the principal annually. After ten years, the annual interest earned by the principal will be awarded as a four-year scholarship to a worthy student in financial need. Competition will only be open to citizens with racial or cultural backgrounds or regions of original residence as follows: Black American, Mexican-American, American Indian, or Southern Appalachia.

The Rev. Frederick N. Miller, S.J., Scholarship Fund
This scholarship was established in the memory of Rev. Frederick N. Miller who was Chairman of the Chemistry Department from 1933 to 1960. It was created by his former students and is awarded to a student majoring in chemistry.

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 liberally educated person. 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, Bachelor of Science, and Bachelor of Literature. Graduates of the College of Business Administration receive the Bachelor of Science in Business Administration.

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 seeks to provide the student with the universality and breadth associated with liberal arts education.

The University Core Curriculum Follows:

Humanities
Every student must successfully pass 12 semester hours of electives in humanities. In the College of Arts and Sciences, six of these hours must be in literature, either in English or another language. The remaining six semester hours may be in any approved humanities courses offered by the University. (Any prerequisite to these courses must be completed.) In the College of Business Administration, the student elects twelve semester hours of approved courses. Some of these hours are expected to be in literature courses. Courses which fulfill this requirement have been selected from communication arts, fine arts, literature, philosophy, and theology and are designated as approved with an asterisk (*) in the course description section of this catalogue. In the College of Continuing Education, the student fulfills this requirement according to the degree program being pursued in arts, science, or business administration.

Social Science
The student must also pass 12 semester hours of electives in the social sciences. The College of Arts and Sciences requires 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 147.) The remaining six hours are to be elected in most programs from approved social science courses. In the College of Business Administration, six of the hours are fulfilled by the two semester requirement in Principles of Economics (I and II) 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. Social science electives are selected from the departments of economics, education, geography, history, political science, psychology, sociology, accounting, management, Industrial relations and marketing. The courses which fulfill this requirement are marked with an asterisk (*) in the course description section of this catalogue.
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 or partial free elective requirements in the student’s program.

The University requires each student to have successfully completed six semester hours in mathematics. 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 major. Students should study the degree requirements of the degree major for any specific courses. Two courses of similar content cannot be elected to fulfill this requirement.

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 Zoology, General Chemistry, College Physics, or University Physics). The two semester courses (six semester hours total) which fulfill this regulation are: Biology 120-128 Life and Laboratory; Chemistry 102-105 Man, Molecules, and the Environment and Laboratory; Physics 116-119 Our Universe and Laboratory; and Psychology 121-124 General Experimental Psychology and Laboratory.

Philosophy

12 semester hours of philosophy are generally required of all undergraduates. All courses are grouped under four areas, corresponding roughly to each of the four undergraduate years. Thus, freshmen normally 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

For the purpose of fulfilling core requirements:

Area I courses (PI 100-199) replace and are the equivalent of Philosophy of Man (PI 220)
Area II courses (PI 200-248) replace and are the equivalent of Metaphysics (PI 230)
Area III courses (PI 250-299) replace and are the equivalent of Principles of Ethics (PI 240)

Students who have already taken the former PI 220, 230, and 240 have already fulfilled the new Area I, II, and III requirements. They should not, except with permission of the Philosophy Chairman, take an Area I, II, or III course. Area IV courses (PI 300-399) are free electives for students, usually seniors, who have completed nine credit hours of philosophy.

Requirements for transfer students depend upon transfer evaluation.

Theology

Theology 111, Introduction to Theology, is required of all students except those in the College of Continuing Education. It is a prerequisite to all theology courses. (Students in the College of Continuing Education must take either Th 111 or Th 112 as their first course.) 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 120-399. (Requirements for transfer students depend upon transfer evaluation.)

English Composition

The University requires evidence of skill attainment in writing. This requirement can be satisfied by passing successfully 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.

Curricular Information

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.

Foreign Students

Foreign students are not required to take foreign languages.

Summary of Core Curriculum

<table>
<thead>
<tr>
<th>Humanities*</th>
<th>Social Science*</th>
<th>Mathematics*</th>
<th>Science*</th>
<th>Philosophy*</th>
<th>Theology*</th>
<th>English Composition*</th>
<th>Foreign Language (Arts and Sciences only)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 hours</td>
<td>12 hours</td>
<td>6 hours</td>
<td>6 hours</td>
<td>12 hours</td>
<td>12 hours</td>
<td>3 hours or &quot;test out&quot;</td>
<td>12 hours maximum</td>
</tr>
</tbody>
</table>

*See explanatory statements for each area of the core curriculum above.

Choice of Major

In selection of major program, 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.

A second major may also be elected. The same requirements for degrees which apply to any major, also apply to the second.

Free Electives

A number of University degree programs and majors require additional hours in free elective to complete degree requirements. A student is limited to six hours of such free electives in their major field, above any requirement in the major.

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 29 credit hours.
2. Sophomores—students having from 29 credit hours through 54 credit hours.

Upper Division Groups:
1. Juniors—students having from 55 credit hours 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 a candidate for any degree.
3. Auditors—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.

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" (Incompiete) will be in the student’s permanent record. Unless the assignments are completed within 9 months 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.

Credit by Examination

If a student claims knowledge of a subject for which he cannot furnish an official record, a special examination may be given with the approval of the Dean and the chairman of the department.

Grading System

A — Exceptional. Indicates not only high achievement but also an unusual degree of intellectual initiative.
B — Good. Indicates attainment above the average.
C — Satisfactory.
D — Inferior. Indicates passing work but below the normal attainment.
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 student may withdraw from a class within the last 28 days before the first day of the final examinations. At this time he 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 course 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 Satisfactory/Unsatisfactory. Courses in Military Science may not be taken on a Satisfactory/Unsatisfactory basis.

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

The course(s) will carry credit hours toward graduation but will have no effect on the quality point average. (Pre-medical students should not take science courses as Pass/Fail, nor should those working for teaching certificates elect education courses.) Students must indicate election of a Pass/Fail course at registration. Changes to or from a grade basis are allowed until the close of late registration.

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 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.

If a student's cumulative average as a sophomore, junior, or senior falls below 2.0, he will be placed on probation. If a student fails to obtain a cumulative average of 2.0 at the end of the semester that he is on probation, he may be 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, totaling at least five semester hours during the summer session, is considered the equivalent of a semester's work.

Dean's List

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

Dean's List Audit

Students placed on the Dean's List are permitted to audit free of charge a three hour course in the immediately subsequent semester. Students should apply for the audit slip at the office of the appropriate dean during the period of late registration. This audit is put on the transcript only when at the end of the semester the professor informs the registrar's office that the student has been regular in attendance.
Academic Regulations

Withdrawal from Courses

A student must withdraw in person and in writing from a course(s) for which registration has been completed. The withdrawal must be certified by the student’s Dean or Registrar. A grade of “W” will be assigned to the student’s course(s) for 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 registrar at least two weeks before the record is needed.

Requests for transcripts for purpose of transfer to another university or for any other purpose cannot be granted during the busy periods of examination 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.

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 curricular requirements listed under the “Core Curriculum.”
2. Students must complete from six to fifteen hours of lower division work preparatory to the specialization of their choice.
3. They must also have no fewer than eighteen hours of upper division work in the major, in all of which they must attain an average of C.
4. They must have at least 120 hours with an overall average of C.
Registration

5. They must have an average of C in upper division courses.
6. They must have completed the last 30 hours in residence and with an average of C.
7. They must have filed formal application for the degree in the office of their college.
8. They must have taken the Undergraduate Record Examination (Advanced Test) in their major field if it is a departmental requirement.
9. They must have passed the comprehensive examination in the College of Arts and Sciences — unless the department has a substitute requirement. (When a thesis is required, the original and one copy must be deposited in the Registrar's office on or before the date designated in the University Catalogue.)
10. They must have discharged all financial obligations to the University.
11. They must have agreed to be present at the Commencement.

Graduation Honors

Honors are awarded on the basis of outstanding attainment. A student who has earned a quality-point average of 3.75 in his college work will be graduated Summa cum Laude; one who has earned 3.50, Magna cum Laude; one who has earned 3.25, cum Laude. These honors are announced at commencement and are inscribed on the diplomas of those meritng them.

For students graduating in June, the final semester's work cannot be computed in determining the quality-point average for honors for inscription on the diplomas and announcement at graduation. However, after the annual graduation ceremony, honors obtained as a result of including the student's final semester will be entered on the student's official University record.

Transfer student's 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, at 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, and Austria may be obtained from the Department of Modern Languages.

REGISTRATION

Time of Registration

Fixed dates in each session found in the academic calendar of this Catalogue are reserved for registration.

Late Registration

Registration on days later than the assigned dates may be permitted upon the payment of a late registration fee of $7.00 and $1.00 per day up to ten days.

Change in Schedule

After the student has filed registration forms, changes in courses or sections can be made only with the 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 fee of $5.00 will be charged 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 established by the University or by the departments which conduct the instruction. Students may not disregard the directions of the Dean or 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.

HONOR SOCIETIES

Alpha Sigma Nu. A chapter of this national honor fraternity for students of Jesuit colleges and universities 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 students, both graduate and undergraduate, majoring in mathematics or related subjects who have achieved distinction in scholarship and have done outstanding work in mathematics.

Psil Chi. Honorary psychology fraternity.

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.
Degree Programs—
The College of Arts and Sciences
THE HONORS BACHELOR OF ARTS

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 six hours of mathematics should include calculus; the science course should be General Chemistry, or General 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 33 elective hours enables the superior student to cover pre-medical or pre-law 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></th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
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</tr>
<tr>
<td>En 115 Lit. and Comp. I</td>
<td>3</td>
<td>En 116 Lit. and Comp. II</td>
<td>3</td>
</tr>
<tr>
<td>Gk 172—Plato* or Gk 173—Aristotle</td>
<td>3</td>
<td>Gk 162—Euripides or Gk 163—Sophocles</td>
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</tr>
<tr>
<td>Gk 101—Elem. Greek</td>
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<td>Gk 102—Intro. to Greek Lit.</td>
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<tr>
<td>Hs** Elective</td>
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<td>Lt 211 Livy</td>
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<td>Lt 153—Virgil: Aeneid VII-XII</td>
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<td><strong>Total</strong></td>
<td>15-17</td>
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<td><strong>Sophomore Year</strong></td>
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<td>Science Elective***</td>
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<td>Gk 260—Sophocles</td>
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<td>Gk 331—Thucydides</td>
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<td>Lt 214—Latin Prose Style</td>
<td>3</td>
<td>Lt 231—Horace: Odes</td>
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<td>Pl 200—Origins of Phil</td>
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<td>Philosophy Area I</td>
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<td>Th Ill Intro. to Theology</td>
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<td>Humanities Elect (Lit.)</td>
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<td>Gk 371—Plato: Republic</td>
<td>3</td>
<td>Gk 251—Homer: Iliad</td>
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<td>Ec or Hs—Elective</td>
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<td>Ec or Hs—Elective</td>
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<td>Lt 391—Lucretius</td>
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<td>Lt 312—Tacitus: Annals</td>
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<td>Philosophy Area II</td>
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<td>Philosophy Area III</td>
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</tr>
<tr>
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<td>Electives@</td>
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<tr>
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<td>15-21</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15-21</td>
<td><strong>Total</strong></td>
<td>15-21</td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Gk 386—Hist. of Greek Lit.</td>
<td>3</td>
<td>Lt 386—Hist. of Latin Lit.</td>
<td>3</td>
</tr>
<tr>
<td>Lt 356—Roman Satire</td>
<td>3</td>
<td>Philosophy Area IV Electives</td>
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</tr>
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<td>12-21</td>
</tr>
<tr>
<td>Electives@</td>
<td>9</td>
<td><strong>Total</strong></td>
<td>12-21</td>
</tr>
</tbody>
</table>

*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 to it. 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 Man), courses numbered from 100-199. Formerly PI 220.
   - Philosophy, Area II (Metaphysics), courses numbered from 200-249. Formerly PI 230.
   - Philosophy, Area III (Ethics), courses numbered from 250-299. Formerly PI 240.
   - Th 111 Introduction to Theology
   - Hs 141 Ideas and Institutions I
   - Hs 142 Ideas and Institutions II
   - or any European History courses approved by the Director
   - Ec 101 Macroeconomics Principles
   - Ec 102 Microeconomics 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 spring 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:
   - For students who need to develop their writing skills, En 115 Composition and Literature, is strongly recommended.
   - Pre-Meds may substitute a course in statistics for one of the courses in calculus.

4. Two sequential courses in one natural science.

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

6. 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 it were 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.
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 Zoology, General Botany, Genetics, Vertebrate Physiology, and Methods of Biological Research (21 hours) and remaining hours (15) of BI electives.

Those anticipating entrance to medical or dental schools complete General Zoology, General Botany, Genetics, Vertebrate Physiology, and Methods of Biological Research (21 hours), twelve recommended hours including Embryology, Comparative Anatomy, General Histology, and remaining hours (4) 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 after three years and four years of undergraduate studies.

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.

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### B.S. (Biology)

**Recommended Sequence of Program**

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<thead>
<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong>@</td>
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<td></td>
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</tr>
<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>
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<td>Ch 113—Gen. Chemistry II Lab</td>
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<tr>
<td>ML 110@</td>
<td>3</td>
<td>ML 112</td>
<td>3</td>
</tr>
<tr>
<td>ML 111@</td>
<td>3</td>
<td>En 101—English Composition*</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<td>Total</td>
<td>14</td>
<td>Total</td>
<td>18</td>
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</table>

| **Sophomore Year** | | | |
| BI 120—Gen. Botany | 3 | BI—Biology Elective | 4 |
| BI 121—Gen. Botany Lab | 1 | Ch 120—University Physics I | 3 |
| Ph 108—University Physics I | 3 | Ch 121—University Physics Lab II | 1 |
| Ph 107—Introductory Physics Lab I | 1 | ML 122 | 3 |
| ML 121 | 3 | Philosophy Area I | 3 |
| Th 111 Intro. to Theology | 3 | Humanities Elective (Lit.) | 3 |
| Humanities Elective (Lit.) | 3 | | |
| Total | 17 | Total | 17 |

| **Junior Year** | | | |
| BI—Biology Elective | 2-4 | BI 230—Genetics | 3 |
| 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 | 16 |

| **Senior Year** | | | |
| BI 360—Vertebrate Physiology | 2 | BI—Biology Elective | 3-4 |
| BI 361—Vertebrate Physiology Lab | 2 | BI 399—Methods Biol. Res | 3 |
| BI—Biology Elective | 2-4 | Philosophy Area IV | 3 |
| BI 398—Methods Biol. Res | 1 | Theology Elective | 3 |
| Theology Elective | 3 | Humanities Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Total | 13-15 | Total | 16-17 |

*Required, unless exempted through a test-out program. See page 34.

@Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshmen year and the start of language studies postponed to the sophomore or junior years. See Language requirements, page 35.

**See Curricular requirements, page 33.
## THE BACHELOR OF SCIENCE (Chemistry)

The Department of Chemistry offers a comprehensive curriculum leading to the Bachelor of Science. 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 totals 44 semester hours.
4. The requirements in mathematics total 12 semester hours: Mt 170, Mt 171, Mt 160, and Mt 220.
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>First Semester</th>
<th>Second Semester</th>
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<td>Freshman Year</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<tr>
<td>History I (100-level Elective)***</td>
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<td>Foreign Language@</td>
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<tr>
<td>Th 111 Intro. to Theology</td>
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<tr>
<td>En 101—English Composition**</td>
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<tr>
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<td>Mt 171—Calculus II</td>
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<td>Ph 108—Univ. Physics I</td>
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<td>Ph 105—Introductory Physics Lab I</td>
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<table>
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<th>Junior Year</th>
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<tr>
<td>Ch 240—Organic Chemistry I</td>
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<td>Ch 280—Instrumental Analysis</td>
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<td>Ch 190—Chemical Literature</td>
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<td>Ch 260—Inorganic Chemistry</td>
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<td>Social Sciences Elective</td>
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*If a student has advanced standing in the calculus, he will begin his mathematics courses with Mt 170 or Mt 160. If the entering student has a serious mathematics deficiency, he may be required to make up such deficiencies in the first semester of the freshman year.

**Required, unless exempted through a test-out program. See page 34.

@See Language requirements, page 35. A student may continue in the 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.

***See Curricular requirements, page 33.
**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 also required. Mt 146 and Mt 150 fulfill the University mathematics requirements.

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>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
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<tr>
<td>Ch 111—Gen Chemistry I Lab</td>
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<td>En 101—English Composition*</td>
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<td>Ch 120—Prin. of Phys. Chem.</td>
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<td>Ph 106—College Physics II</td>
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<td>Ch 151—Analytical Chemistry</td>
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<td>Ch 240—Organic Chemistry I</td>
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<td>Theology Elective</td>
<td>3</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Ch 190—Chemical Literature</td>
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<tr>
<td>Ch 280—Instrumental Analysis</td>
<td>3</td>
<td>Ch 281—Instrumental Analysis Lab</td>
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<td>Ch—Elective</td>
<td>2-3</td>
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<td>Philosophy Area IV</td>
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<td>Electives</td>
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<td>Humanities Elective</td>
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<tr>
<td>Ch—Elective</td>
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<td>Social Science Elective</td>
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<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>16-17</td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See page 34.

**See Curricular requirements, page 33.
**A.B. (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 in recorded history was for the first time 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.

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>Lt 151—Virgil I-VI</td>
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<tr>
<td>Lt 115—Interm. Latin*</td>
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<td>Mt—Elective</td>
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<td>Mt—Elective**</td>
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<td>ML or Gk</td>
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<td>Philosophy Area I</td>
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| **Sophomore Year** |                |                 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Lt 131—Horace | 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 |
| Theology Elective | 3 | Theology Elective | 3 |
| **Total** | 15 | **Total** | 15 |

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

*Required, unless exempted through a test-out program. See pages 34-35.

**See Curricular requirements pages 33-34.
THE BACHELOR OF ARTS (Classical Humanities)

This program is designed to offer a major for those students with an interest in the ancient world but who prefer breadth rather than specialization in their undergraduate education or who 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>
<th>First Semester</th>
<th>Second Semester</th>
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<td><strong>Sem. Hrs.</strong></td>
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<td>Lt 102, 151 or 161</td>
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<td>History II (100-level Elective)**</td>
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<tr>
<td>Mt-Elective**</td>
<td>Mt-Elective **</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
<td>Philosophy Area I</td>
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<td>En 101 English Composition**</td>
<td>Humanities Elective (Lt)</td>
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<table>
<thead>
<tr>
<th><strong>Sophomore Year</strong></th>
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<tbody>
<tr>
<td>Lt 131 or Lt 200-300 level course or Gk 200-300 level course</td>
<td>Lt 161 or Lt 200-300 level course or Gk 200-300 level course</td>
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<td>Science Elective</td>
<td>Science Elective</td>
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<td>Theology Elective</td>
<td>Philosophy Area II</td>
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<td>Ci-Elective</td>
<td>Ci-Elective</td>
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<td>Social Science Elective</td>
<td>Social Science Elective</td>
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<td>Total 15</td>
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<tr>
<th><strong>Junior Year</strong></th>
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<tbody>
<tr>
<td>Lt (200-300 level course) or Elective</td>
<td>Lt (200-300 level course) or Elective</td>
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<tr>
<td>Theology Elective</td>
<td>Philosophy Area III</td>
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<td>Ci-Elective</td>
<td>Ci-Elective</td>
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<tr>
<td>Humanities Elective (Lt)</td>
<td>Humanities Elective</td>
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<td>Elective</td>
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<th><strong>Senior Year</strong></th>
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<tbody>
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<td>Ci-Elective</td>
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<tr>
<td>Theology Elective</td>
<td>Electives</td>
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<td>Philosophy Area IV</td>
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<td>Ci-Elective</td>
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<td>Total 16</td>
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*Required, unless exempted through a test out program. See page 34.

**See Curricular requirements, page 33.
COMMUNICATION ARTS (Bachelor of Science)

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 towards the roles they will play in society. Courses in basic skills in written and spoken communication support specialized study in areas of: Communication-Marketing (C-Mk), Communication-Speech (C-Sp), Film-Photography (F-Ph), Journalism (Broadcast and Print); Public Relations (J-PR), and Radio-Television (R-TV)—with hands-on experience in labs. The R-TV area utilizes WVXU-FM and the TV Studio; the F-Ph area, the Film-Photography Studio; Broadcast and Print Journalism, radio and television facilities and, along with the PR area, the Typing Lab employed in all writing courses.

Students select one of five areas, taking three courses in first year when specialization is begun. Following basic courses are area courses and electives, some electives being selected from other CA areas. In the J-PR area, emphasis is on Broadcast Journalism. Directed planning is necessary, the main features being indicated in the Course Sequence below and the general block schedule, next page. To the thirty-hour major, an additional six hours of CA courses may be added. The Media Report (research paper) is submitted by first-semester sophomores to qualify for further CA study and to test out of CA 206 Effective Writing. A passing grade is required for the Report before taking junior-level CA courses. Writing and typing skills are increasingly demanded at academic levels. Senior comprehensive exams complete the requirements.

Course Sequence for CA Areas of Concentration

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<tr>
<th>Freshman Year</th>
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<td>First Semester</td>
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<tr>
<td>C-Mk CA Speech Elective</td>
<td>CA 203 and Mk 100</td>
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<tr>
<td>C-Sp CA 101</td>
<td>CA 102 and CA 200</td>
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<tr>
<td>F-Ph CA Speech Elective</td>
<td>CA 203 and CA 207</td>
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<td>J-PR CA Speech Elective</td>
<td>CA 203 and CA 237</td>
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<tr>
<td>R-TV CA 203</td>
<td>CA 102 and CA 218</td>
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<th>CA 204</th>
<th>CA Restricted #1*</th>
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<td>CA 238</td>
<td>CA 201</td>
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<tr>
<td>C-Sp</td>
<td>CA 204</td>
<td>CA 213</td>
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<tr>
<td>F-Ph</td>
<td>CA 204</td>
<td>CA 239</td>
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<td>J-PR</td>
<td>CA 219</td>
<td>CA 220 and CA 221</td>
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<td>R-TV</td>
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<th>CA 270 and Restricted #2*</th>
<th>MK 202</th>
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<td>CA 204 and CA 260</td>
<td>CA 263</td>
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<td>C-Sp</td>
<td>CA 211 and CA 212</td>
<td>CA 214</td>
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<td>F-Ph</td>
<td>CA 241 and CA Elective</td>
<td>CA 242</td>
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<tr>
<td>J-</td>
<td>CA 251 and CA Elective</td>
<td>CA 252</td>
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<td>R-TV</td>
<td>CA 222 and CA Elective</td>
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<td>J-</td>
<td>CA 243</td>
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<td>PR-</td>
<td>CA 253</td>
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<td>CA 233 and CA Elective</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)

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<td>History II (100-level Elective)**</td>
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<td>Humanities Elective (Lit)</td>
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<td>Philosophy Area II</td>
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<td>Social Science Elective</td>
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<td>Elective</td>
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<td>Philosophy Area IV</td>
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<td>Humanities Elective (Lit)</td>
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<td>Theology Elective</td>
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<td>Theology Elective</td>
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<tr>
<td>Elective</td>
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<td>Elective</td>
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<td>Total</td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See page 34.

**See curricular requirements, pages 33–35.

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

From business to law enforcement, computer technology has revolutionized society's methods for processing information. All indications are that computer use will continue to accelerate in the foreseeable future. Typical computer careers include its application in such areas as accounting, economics, engineering, law, mathematics, medicine, and the sciences. Other positions include the design of computers, computer product marketing and sales, technical writing and teaching.

As technology increases, so must the intelligent use of that technology. Xavier University's program in computer science is designed to develop, within the framework of a liberal arts education, the knowledge, skills, and creative analytical ability required for a productive career in computer-related fields and for graduate work in computer and information sciences. 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 mathematics courses required of mathematics majors. Students entering the computer science program should have a background in algebra sufficient to begin a serious study of calculus.

Computer science majors are urged to become active members of the Xavier University Student Chapter of the Association for Computing Machinery.

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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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</tr>
<tr>
<td>CS 125—Intro to Computing A</td>
<td>2</td>
<td>CS 135—Numerical Calculus I</td>
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<td>CS 126—Intro to Computing B</td>
<td>3</td>
<td>CS 136—Numerical Calculus II</td>
<td>2</td>
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<tr>
<td>Mt 170—Calculus I</td>
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<td>Mt 171—Calculus II</td>
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<tr>
<td>En 101—English Composition*</td>
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<td>Mt 160—Vectors and Geometry</td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>CS 255—Assembler Language</td>
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<td>CS 256—Assembler Lab</td>
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<td>Mt 220—Advanced Calculus I</td>
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<td>CS 325—Data Structures</td>
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<td>CS 390—Senior Project</td>
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<td>CS 395—C.S. Seminar</td>
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<td>Social Science Elective</td>
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</table>

*Required, unless exempted through a test-out program. See pg. 34.
@See curricular requirements, page 33.
†CS 267 Non-Numerical Computing required as CS—CSR elective in Junior or Senior Year. One other CS elective required.
#CSR (Computer Science Related electives) are courses in such areas as business, mathematics, or science, approved by adviser.
**Students are required to elect a major level, 8-hr science elective.
Seniors must fulfill the current 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. The curriculum also emphasizes the contributions of the great economists of the past who have influenced current thought. 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 at graduate schools of economics or business administration throughout the country.

Requirements in the major include: Ec 101 Macroeconomic Principles; Ec 102 Microeconomic Principles; Ec 200 Microeconomic Analysis; Ec 201 Macroeconomic Analysis; Ec 202 History of Economic Thought; Ec 222 Econometrics; Ec 250 Money and Banking; Ec 345 International Economics; and twelve (12) semester hours of economic electives. The major requires a total of thirty-six (36) semester hours.

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
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<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
</tr>
<tr>
<td>Foreign Language**</td>
<td>3</td>
<td>Foreign Language</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td>Ec 101—Macroeconomic Principles</td>
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| Sophomore Year |                  |                  |
| Mt 149—Elementary Functions** | 3 | Ec 250—Money and Banking | 3 |
| Science Elective | 3 | Mt 150—Elements of Calculus I | 3 |
| Theology Elective | 3 | Science Elective | 3 |
| Foreign Language | 3 | Philosophy Area II | 3 |
| Social Science Elective | 3 | Foreign Language | 3 |
| Total | 15 | Total | 15 |

| Junior Year |                  |                  |
| Ec 200—Microeconomic Analysis | 3 | Ec 201—Macroeconomic Analysis | 3 |
| Ec 202—Hist. of Econ. Thought | 3 | Ec 202—Hist. of Econ. Thought | 3 |
| Ec Elective | 3 | Ec 202—Hist. of Econ. Thought | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| Total | 15 | Total | 15 |

| Senior Year |                  |                  |
| Ec 222—Econometrics | 3 | Ec 345—International Economics | 3 |
| Elective | 6 | Ec—Elective | 3 |
| Philosophy Area IV | 3 | Electives | 3 |
| Theology Elective | 3 | Humanities Elective | 3 |
| Total | 15 | Total | 15 |

*Required, unless exempted through a test-out program. See page 34.
**See Curricular requirements, page 33.
***Students having the equivalent of Mt 149 should take Mt 150 and Mt 151. See also page 34.
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 block schedule. Information and counseling are available in the Teacher Education and Placement Office. Students wishing to teach K-8, see footnote in the block schedule.

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 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 the student 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.
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.

New Standards for Teacher Preparation

The curricula for teacher certification outlined in this catalogue are subject to change under the new Ohio standards for the redesign of teacher preparation which are currently being implemented at Xavier. Changes when made will be publicized widely for the guidance of all students concerned.

Montessori Education

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

Specific counseling of each student is given by an advisor 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 state. 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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
<td></td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Mt 140—General Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Ph 115—Intro. Phys. Science Lab</td>
<td>1</td>
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<tr>
<td>Ed 300—Intro. to Elem. Ed.</td>
<td>3</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td></td>
<td>Total ............</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td></td>
</tr>
<tr>
<td>Ed 141—Human Growth and Dev. I</td>
<td>3</td>
</tr>
<tr>
<td>Ed 226—Children's Lit</td>
<td>3</td>
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<tr>
<td>FA##</td>
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<tr>
<td>Theology Elective</td>
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<td></td>
<td>Total ............</td>
</tr>
<tr>
<td>Junior Year</td>
<td></td>
</tr>
<tr>
<td>Ed 214—Meth. of Teaching Read</td>
<td>3</td>
</tr>
<tr>
<td>Ed 301—Elem. Meth. &amp; Mat.: Sc@</td>
<td>2</td>
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<tr>
<td>Ed 313—Elem. Meth. &amp; Mat.: Art</td>
<td>1</td>
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<tr>
<td>Ed 314—Elem. Meth. &amp; Mat.: Music</td>
<td>2</td>
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<tr>
<td>Ed 386—Elem. Health &amp; Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>Hs 341—Am. Civilization to 1865</td>
<td>3</td>
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<td>Theology Elective</td>
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<tr>
<td></td>
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<tr>
<td>Senior Year</td>
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<tr>
<td>Ed 204—Student Teaching*##</td>
<td>6</td>
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<tr>
<td>Ed 304—Sem. Prof. Problems</td>
<td>3</td>
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<td>CA 101—Oral Communication</td>
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<td>Elective##</td>
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</table>

*Student Teaching may be assigned in either semester and balanced by electives.

**Students wishing certification in Kindergarten through 8th grade must take Ed 305, 306

@Ed 300 is a prerequisite for Ed 301 and 302. Ed 300 and Ed 302 require ½ day per week for one semester of field experience.

#Either FA 105, 201, 213, 220, 225 or 227.

#Either FA 251, 252, 255, or 256.
### B.S. (Physical Education and Health)@@

**Recommended Sequence of Program**

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
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<td>BI 106</td>
<td>Human &amp; Phys. I</td>
<td>2</td>
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<td>BI 107</td>
<td>Human &amp; Phys. II</td>
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<tr>
<td>Ed 377</td>
<td>Org. &amp; Admin. Ed.†</td>
<td>3</td>
</tr>
<tr>
<td>Mt 146</td>
<td>Elementary Statistics</td>
<td>3</td>
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<tr>
<td>Th 111</td>
<td>Intro. to Theology</td>
<td>3</td>
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<tr>
<td>En 101</td>
<td>English Composition*</td>
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<tr>
<td>BI 108</td>
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#### Sophomore Year

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<th>Sem. Hrs.</th>
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<td>Ed 131</td>
<td>Intro. to Sec. Ed.</td>
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<tr>
<td>Ed 141</td>
<td>Human Growth &amp; Dev. I</td>
<td>3</td>
</tr>
<tr>
<td>Ed 371</td>
<td>History I (100- level Elective)†</td>
<td>3</td>
</tr>
<tr>
<td>Ed 387</td>
<td>Safety &amp; First Aid†</td>
<td>2</td>
</tr>
<tr>
<td>Ed 372</td>
<td>Coaching Basketball†</td>
<td>2</td>
</tr>
<tr>
<td>Ed 376</td>
<td>Theory of Officiating</td>
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</tr>
<tr>
<td>History II</td>
<td>100-level Elective†</td>
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<tr>
<td>Ed 386</td>
<td>Kinesiology†</td>
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<tr>
<td>Ed 375</td>
<td>Coaching Trk. &amp; Fld.‖ and P.E. A.</td>
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<td>Ed 374</td>
<td>Coaching Baseball‖ or P.E. A.</td>
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<tr>
<td>Ed 383</td>
<td>Coach. Women's Team Sports‖</td>
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<tr>
<td>Ed 274</td>
<td>Mental Hygiene</td>
<td>2</td>
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<tr>
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<td>Human Growth &amp; Dev. II</td>
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#### Junior Year

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<td>Intro. to Emot. Dist. Child.</td>
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<tr>
<td>Ed 142</td>
<td>History II (100-level Elective)†</td>
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<tr>
<td>Philosophy Area III</td>
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<td>Humanities Elective</td>
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*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.

@See Curricular requirements, page 33.

**Recommended Sequence of Program**

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Sem. Hrs.</th>
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<tr>
<td>En 101</td>
<td>English Composition</td>
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<td>Mt 140</td>
<td>General Mathematics</td>
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<td>Ph 114</td>
<td>Intro. Phys. Science</td>
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</tr>
<tr>
<td>Mt 145</td>
<td>Intro. Phys. Science Lab</td>
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<td>Th 111</td>
<td>Intro. to Theology</td>
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<tr>
<td>Ed 300</td>
<td>Intro. to Elem. Ed.†</td>
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#### Sophomore Year

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<tbody>
<tr>
<td>Ed 141</td>
<td>Human Growth &amp; Dev. I</td>
<td>3</td>
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<td>Ed 226</td>
<td>Children's Literature</td>
<td>3</td>
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<td>Ed 315</td>
<td>New Math: El. School Teachers</td>
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<td>Hs 260</td>
<td>World Civilization I</td>
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<td>Theology Elective</td>
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<td>Ed 351</td>
<td>Mont. Ed.: Phil. Approach</td>
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#### Junior Year

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<tr>
<td>Ed 214</td>
<td>Meth. of Teaching Reading</td>
<td>3</td>
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<td>Ed 301</td>
<td>El. Meth. &amp; Mat.: Science@</td>
<td>2</td>
</tr>
<tr>
<td>Ed 313</td>
<td>El. Meth. &amp; Mat.: Art.</td>
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</tr>
<tr>
<td>Ed 314</td>
<td>El. Meth. &amp; Mat.: Music</td>
<td>1</td>
</tr>
<tr>
<td>Hs 341</td>
<td>Am. Civilization since 1865</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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#### Senior Year

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Ed 382</td>
<td>Elem. Health &amp; Hygiene</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>Philosophy Area IV</td>
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<tr>
<td>Theology Elective</td>
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<td>3</td>
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<tr>
<td>CA 101</td>
<td>Oral Communication</td>
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<tr>
<td>Total</td>
<td></td>
<td>14</td>
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</tbody>
</table>

*Program qualifies students for AMS Montessori-Elementary and Ohio certification, K-8.

†Includes the September observations and additional observations during the semester.

@Ed 300 is a prerequisite for Ed 301 and 302. Ed 300 and Ed 302 require ½ day per week for one semester of field experiences.

**Either** Fa 105, 201, 213, 220, 225, or 227. **#Either** Fa 251, 252, 255, or 256.

Students wishing Montessori Pre-School (AMS) certification instead of Montessori-Elementary certification must make the following substitutions:

- Ed 454 for Ed 333; Ed 359 for Ed 366; Ed 455 for Ed 355, 354; Ed 456 for Ed 303.

In addition, the student must take a full-year (half-day) Montessori Pre-School Internship (Ed 457, 458) in lieu of the Montessori-Elementary Internship (Ed 357). Students choosing this option also qualify for Ohio State certification, K-8.

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, En 116, En 300 (The British Literary Experience) and En 303 (The American Literary Experience). Additional requirements are a course in Shakespeare and a course in British literature before 1800 or The History of the English Language, En 203. A second course in American literature is strongly recommended. The remaining five courses are electives.

The English Department offers the option of an English major with a Theatre concentration. Students who elect this option must take En 115, En 116, En 300, and En 303, a course in Shakespeare, one additional course in dramatic literature, Th 231, The History of the Theatre, and Theatre Workshop. The remaining four courses are elected from Theatre (at least two) and from English (at least one).

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>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>Freshman Year</td>
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<tr>
<td>En 115—Composition and Lit.</td>
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<tr>
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<tr>
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<td>Th 111—Intro. to Theology</td>
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<tr>
<td>Sophomore Year</td>
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<tr>
<td>En 300—The British Literary Exp</td>
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<td>Mt—Elective**</td>
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<td>Shakespeare Elective</td>
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<td>En—Amer. Lit. Elective</td>
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<td>En—Electives</td>
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<td>Philosophy Area IV</td>
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†These courses satisfy University English composition requirement for English majors.
**See Curricular requirements, pages 33-35.
### A.B. (History)

**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
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<tr>
<td><strong>Freshman Year</strong></td>
<td><strong>Sophomore Year</strong></td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
<td>History II (100-level Elective)**</td>
</tr>
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<td>Foreign Language**</td>
<td>Foreign Language</td>
</tr>
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<td>3</td>
<td>3</td>
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<tr>
<td>Science Elective</td>
<td>Science Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>Th 111 Intro. to Theology</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>En 101—English Composition*</td>
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<table>
<thead>
<tr>
<th><strong>Junior Year</strong></th>
<th><strong>Senior Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hs 341—Amer. Civ. to 1865</td>
<td>Hs 293—Historical Research†</td>
</tr>
<tr>
<td>3</td>
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<td>Humanities Elective (Lit.)</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>Theology Elective</td>
<td>Philosophy Area IV</td>
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<tr>
<td>Social Science Elective</td>
<td>Electives</td>
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**Senior Year**

<table>
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<tr>
<th><strong>Sem. Hrs.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
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</tbody>
</table>

**See Curricular requirements, pages 33–35.**

*Required, unless exempted through a test-out program. See page 34.

†Hs 293 may be taken any time after the sophomore year.
THE BACHELOR OF SCIENCE (Mathematics)

The Department of Mathematics offers a program intended to develop exact methods of thought and analysis, provide the mathematical background for work in science and business, and prepare students for teaching and for graduate work.

Mathematics has always been the tool of the physical scientist, who is now finding uses for even more sophisticated concepts. The expansion of the use of computers will require the services of many individuals trained in the mathematical sciences. The social and health sciences and the world of business and law are becoming aware of the need for people who are able to use mathematical models to solve problems. The field of statistics is growing rapidly. Also the study of mathematics for its own sake, theoretical mathematics, will continue to require new mathematicians.

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 any type of mathematical application. 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.

A mathematics major will take 12 hours of Lower Division mathematics and 27 hours of Upper Division mathematics of which 15 hours are elective courses. The guidelines for the core curriculum are found on page 33 of this catalogue. 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, German, or Russian. The Senior Comprehensive examination requirement is fulfilled by passing the Graduate Record Examination in Mathematics.

---

### B.S. (Mathematics)

#### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td></td>
</tr>
<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>
</tr>
<tr>
<td>ML 111**</td>
<td>3</td>
<td>ML 112</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
<td>Theology Elective</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Mt 160—Vectors and Geometry</td>
</tr>
<tr>
<td>Mt 170—Calculus I</td>
<td>3</td>
<td>Mt 170—Calculus II</td>
</tr>
<tr>
<td>Mt 125—Intro. to Computing</td>
<td>2</td>
<td>Mt 135—Numerical Calculus</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td><strong>Total</strong></td>
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</table>

| **Sophomore Year** |
|---|---|
| Science elective | 3 |
| Philosophy Area II | 3 |
| ML 121 | 3 |
| Mt 210—Infinity Series | 2 |
| Mt 250—Advanced Calculus I | 3 |
| **Total** | 14 | **Total** | 16 |

| **Junior Year** |
|---|---|
| Elective | 3 |
| Humanities Elective (Lit.) | 3 |
| Social Science Elective | 3 |
| Philosophy Area III | 3 |
| Mt 240—Linear Algebra | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** |
|---|---|
| Electives | 6 |
| Philosophy Area IV | 3 |
| Mt—Electives | 6 |
| **Total** | 15 | **Total** | 15 |

**See Curricular requirements, pages 33-35.
*Required, unless exempted through a test-out program. See page 34.
**THE BACHELOR OF SCIENCE (Medical Technology)**

The curriculum which leads to the B.S. in Medical Technology 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.

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.

Through an affiliation with 2 hospitals the program may be completed in nuclear medical technology, but a tuition fee is charged by the hospitals.

Specific course requirements for the first three years are indicated in the accompanying block schedule on the next page. The degree program requires 16 semester hours in biology and 18 semester hours in chemistry.

### B.S. (Medical Technology)

#### 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>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>Mt 150—Elements of Calculus I</td>
<td>Mt 146—Elementary Statistics</td>
</tr>
<tr>
<td>En 101—English Composition**</td>
<td>Th 111—Intro. to Theology</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

| **Sophomore Year** |                  |
| Ch 240—Organic Chem. I | Ch 242—Organic Chem. II |
| Ch 241—Organic Chem. I Lab | Ch 243—Organic Chem. II Lab |
| Philosophy Area I | Philosophy Area II |
| History I (100-level Elective)# | Ph 107—Intro. Physics Lab I |
| Ph 108—College Physics I | Ph 109—College Physics II |
| Ph 105—Intro. Physics I Lab | Theology Elective |
| Humanities Elective | Humanities Elective (Lit.) |
| **Total** | **Total** |
| 14 | 17 |

| **Junior Year** |                  |
| BI 360—Vert. Physiology | BI 212—Bacteriology |
| BI 361—Vert. Physiology Lab | BI 213—Bacteriology Lab |
| Ch 151—Analytical Chem. | Philosophy Area IV |
| Philosophy Area III | Theology Elective |
| Humanities Elective (Lit.) | Humanities Elective |
| Humanities Elective | Social Science Elective |
| Social Science Elective | **Total** |
| **Total** | 17 |

| **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.) |

*Courses in Social Science, Humanities, Philosophy or Theology may be taken in the Freshman year and the start of language postponed to the sophomore year.*

**Required, unless exempted through a test-out program. See page 34.

#See Curricular requirements, page 33.

If 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 Science, 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 students' 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.

**See Curricular requirements, page 33.
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 be used as free electives.

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

The major programs aim at providing the student the opportunity to acquire an indepth knowledge of the literature and civilization of linguistic groups 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 and 234 or 235 and 240 and 241.
- Spanish majors must include: Sp 200.

During the final semester before graduation, all majors are required to take a Senior Comprehensive Examination in the language of their major.

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### A.B. (Modern Languages) Recommended Sequence of Program

#### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>History I (100-level Elective)</td>
<td>History II (100-level Elective)</td>
</tr>
<tr>
<td>ML 111</td>
<td>ML 112</td>
</tr>
<tr>
<td>Science Elective</td>
<td>Science Elective</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Mt—Elective†</td>
<td>Mt—Elective</td>
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#### Sophomore Year

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<tbody>
<tr>
<td>Social Science Elective</td>
<td>Social Science Elective</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>Humanities Elective (Lit.)</td>
</tr>
<tr>
<td>Elective</td>
<td>ML 122</td>
</tr>
<tr>
<td>ML 121</td>
<td>Theology Elective</td>
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<tr>
<td>Philosophy Area II</td>
<td>Elective</td>
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#### Junior Year

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<td>Humanities Elective</td>
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<td>Elective</td>
<td>ML—Sp Electives</td>
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<td>ML—Sp 200, Sp Elective</td>
<td>Fr 241; Fr Elective</td>
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<td>Fr 200, 234 or 235</td>
<td>Philosophy Area III</td>
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<td>Theology Elective</td>
<td>Elective</td>
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#### Senior Year

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<td>ML—Sp Electives, Fr Electives</td>
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<tr>
<td>and Fr 240</td>
<td>and Fr 241</td>
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<td>Philosophy Area IV</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

†See Curricular Requirements, pages 33-35.
*Required, unless exempted through a test-out program. See page 34.

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

Students follow the above schedule. However, they must also take Principles of Accounting, Principles of Economics, Principles of Management, and Business Finance as free electives. See page...
**THE BACHELOR OF ARTS (Philosophy)**

Majors in philosophy are persons preparing for graduate studies in philosophy or some other discipline in the humanities or social sciences, or for professional studies, especially in law or theology. Others are anticipating careers in businesses or institutions that provide their own professional training. Still others have a second major for career goals (see below). Philosophy majors through their educational experience in the major are provided an opportunity to acquire a reasoned knowledge of the ultimate sources, categories, and properties of being (metaphysics); of the material world (philosophy of nature); of the intricacies of human knowledge (theory of knowledge and logic); of human nature, its dignity and powers (philosophy of man); of human action, its sources and goals (ethics); and of the philosophical principles of religion (philosophy of God). The major also provides a broad knowledge of the history of philosophy, and criteria are proposed which can be used to evaluate the many and varied contributions of philosophers from antiquity to the present.

Philosophy majors complete a minimum of 36 hours in philosophy, taken in special high-intensity (HiP) sections when offered. PI 398-399 is an optional seminar offered to help seniors prepare for the written and oral comprehensive examinations in philosophy. The courses are also a valuable opportunity for the student to think through and synthesize the extensive and disparate knowledge acquired in 4 years of college. The philosophy major program contains 27 hours of free electives, which most students wisely take in a single discipline or specialty, thus acquiring a second area of concentration, rather than dispersing their electives over a wide range.

Philosophy majors who intend to pursue graduate study in medieval and modern philosophy find that knowledge of Latin and French are usually necessary; for ancient philosophy, Greek is usually necessary; and for contemporary European philosophy, French and German.

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### A.B. (Philosophy)

**Recommended Sequence of Program**

<table>
<thead>
<tr>
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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>
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<tr>
<td>Foreign Language**</td>
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<td>Foreign Language</td>
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<tr>
<td>Science Elective</td>
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<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<td>Humanities Elective</td>
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<td>En 101—English Composition*</td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>Mt—Elective**</td>
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<td>Mt—Elective</td>
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<tr>
<td>Foreign Language</td>
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<td>Foreign Language</td>
<td>3</td>
</tr>
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<td>Philosophy Area II</td>
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<td>Pi 315—Phil. of God</td>
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<td>Theology Elective</td>
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<td>Elective</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Total</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>PI 310—Logic or PI 311—Symbolic Logic</td>
<td>3</td>
<td>PI 314-315—Theory of Knowledge</td>
<td>3</td>
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<tr>
<td>PI 316—Material World</td>
<td>3</td>
<td>PI 303—Hist. of Modern Phil.</td>
<td>3</td>
</tr>
<tr>
<td>PI 301—Hist. of Ancient Phil. or PI 302—Hist. of Medieval Phil.</td>
<td>3</td>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
<td>Electives</td>
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<td>Social Science Elective</td>
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<td>Total</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
<td>Total</td>
<td>15</td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Philosophy Area III</td>
<td>3</td>
<td>Pi 323-328 (Elect one)</td>
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<tr>
<td>PI 301—Hist. of Ancient Phil. or PI 302—Hist. of Medieval Phil.</td>
<td>3</td>
<td>Pi 305 or 306—Contemp. Phil. or PI 306—Contemp. Continental Phil. or</td>
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<td>Theology Elective</td>
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<td>Pi 307—Contemp. Brit. and Amer. Phil.</td>
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<td>Total</td>
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</tbody>
</table>

*See Curricular requirements, pages 33-35.

*Required, unless exempted through a test-out program. See page 34.
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**

<table>
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**First Year**

<table>
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<td>Ph 110—Univ. Physics II</td>
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<tr>
<td>Ph 115—Intro. Physics Lab I</td>
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<td>Ph 107—Intro. Physics Lab II</td>
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<td>Ph 160—Computers in Phy</td>
<td>2</td>
<td>Mt 160—Vectors and Geometry</td>
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<tr>
<td>Mt 170—Calculus I</td>
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<td>En 101—English Composition**</td>
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<td>Th 111—Intro. to Theology</td>
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**Sophomore Year**

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<td>Ph 244—Electronics II</td>
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<tr>
<td>Ph 242—Electronics I</td>
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<td>Ph 245—Electronics II Lab</td>
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<td>Ph 243—Electronics I Lab</td>
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<td>Mt 215—Differential Equations</td>
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<td>Humanities Elective</td>
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<td>ML 122</td>
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<td>ML 121</td>
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**Junior Year**

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<th>Course</th>
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<tbody>
<tr>
<td>Ph 366—Atomic Physics*</td>
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<td>Ph 374—Nuclear Physics*</td>
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<td>Ph 375—Atomic Physics Lab*</td>
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<td>Ph 361—Nuclear Physics*</td>
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<td>Ph 352—Electromagnetism*</td>
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<td>Ph 364—Optics*</td>
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<td>Ch 110—Gen. Chemistry I</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<td>Mt 220—Advanced Calculus I</td>
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<td>Mt 230—Advanced Calculus II</td>
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<td>Philosophy Area III</td>
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**Senior Year**

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<th>Course</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>Ph 372—Electromagnetic Theory</td>
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<td>Ph 376—Quantum Mech.</td>
<td>3</td>
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<tr>
<td>Ph 365—Optics Lab</td>
<td>1</td>
<td>Ph 390—Special Studies</td>
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<tr>
<td>Ph 398—Senior Research</td>
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<td>Social Science Elective</td>
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<td>Philosophy Area IV</td>
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<td>Theology Elective</td>
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<tr>
<td>Humanities Electives (Lit.)</td>
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<td>Humanities Elective (Lit.)</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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<tr>
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<td>17</td>
</tr>
</tbody>
</table>

#See Curricular requirements, pages 34-35.
**Required, unless exempted through a test-out program. See page 34.
*These courses are offered on alternate years.
# 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 we encourage students 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

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></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>Philosophy Area I</td>
<td>3</td>
<td>Science Elective</td>
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<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
<td>En 101—English Composition**</td>
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| **Sophomore Year**  |                |                 |
| Elective*           | 3              | Elective        | 3              |
| Humanities Elective (Lit.) | 3            | Social Science Elective | 3         |
| Po 101—Principles of Government | 3      | Philosophy Area II         | 3        |
| Foreign Language    | 3              | Po 110—American Gov. | 3              |
| Total               | 18             | Total           | 15             |

| **Junior Year**     |                |                 |
| Mt 146—Elementary Statistics# | 3                  | Mt—Elective | 3              |
| Humanities Elective | 3              | Humanites Elective | 3              |
| Po 221—Comparative Gov't | 3            | Po 233—Political Theory | 3          |
| Po—Elective         | 3              | Philosophy Area III | 3             |
| Theology Elective   | 3              | Po 377—International Relations | 3     |
| Total               | 15             | Total           | 15             |

| **Senior Year**     |                |                 |
| Po 391—Problems in Am. Gov't. (or 390) | 3        | Po—Elective | 3              |
| Po—Electives        | 6              | Electives      | 9              |
| Elective            | 3              | Philosophy Area IV | 3            |
| Theology Elective   | 3              |                |                |
| Total               | 15             | Total           | 15             |

*See Curricular requirements, pages 33-35.

**Required, unless exempted through a test-out program. See page 34.

'Suggested: Principles of Economics.
### 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 in the understanding of human behavior and human personality, the psychology courses aim to show to 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.

<table>
<thead>
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<th>Sem. Hrs.</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
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<td><strong>Freshman Year</strong></td>
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<td>Ps 210—Stat. Tech</td>
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<td>Modern Language</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area II</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Ps 221—Exp. Psychology</td>
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<td>Ps—Elective</td>
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*Required, unless exempted through a test-out program. See page 34.
†Majors must choose the mathematics sequence 149, 150 or 150, 151 or 170, 171.
#See Curricular requirements, pages 33-35.
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 four courses: So 101 Introduction to Sociology, So 180 Cultural Anthropology, So 300 Sociological Theories, and So 352 Principles of Research. Two additional restricted Sociology electives must be taken: (1) a second level research course such as Intermediate Research or Archaeology; and (2) a second level theory course such as Sociology of Max Weber or Utopian Communities.

Specific approved second level courses to be offered will be announced by the department. Four additional 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.

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<th>A.B. (Sociology)</th>
<th>Recommended Sequence of Program</th>
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<tr>
<td>Foreign Language**</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<tr>
<td>Science Elective</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Social Science Elective</td>
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<td>So 300—Sociological Theories</td>
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<td>So 352—Principles of Research</td>
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**See Curricular requirements, pages 33-35.
*Required, unless exempted through a test-out program. See page 34.
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 theological 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 as 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:

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<tr>
<td>3 theology electives</td>
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<td>Senior seminar</td>
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A.B. (Theology)
Recommended Sequence of Program

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<td></td>
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<tr>
<td>Freshman Year</td>
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<td>Foreign Language**</td>
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<tr>
<td>History I (100-level Elective)**</td>
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<tr>
<td>Science Elective**</td>
<td>3</td>
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<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>Total</td>
<td>15</td>
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</table>

| Sophomore Year |                |                |
|----------------|----------------|
| Foreign Language            | 3       |
| Humanities Elective (Lit.) | 3       |
| Mt—Elective**             | 3       |
| Social Science Elective   | 3       |
| Th 200—Evolution of Christian Theology* | 3    |
| Total                      | 15       |

| Junior Year |                |                |
|-------------|----------------|
| Humanities Elective            | 3       |
| Philosophy Area III           | 3       |
| Theology (Scripture)*         | 3       |
| Theology (World Religions)    | 3       |
| Elective%                     | 3       |
| Total                         | 15       |

| Senior Year |                |                |
|-------------|----------------|
| Theology (Christian Ethics)*  | 3       |
| Th—Electives          | 9       |
| Electives%             | 3       |
| Total                 | 15       |

*Special section for theology majors.
**See Curricular requirements, pages 34–35.
#Required, unless exempted through a test-out program. See page 34.
%Theology majors have 27 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.
## B.S. (Natural Sciences)
*(For Pre-Medical and Pre-Dental Students)*

### Recommended Sequence of Program

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<tbody>
<tr>
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<tr>
<td>Ch 110—Gen. Chem. I</td>
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<td>Ch 112—Gen. Chem. II</td>
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<td>Ch 111—Gen. Chem. I Lab</td>
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<td>Ch 113—Gen. Chem. II Lab</td>
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<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
<td>Mt 146—Elementary Statistics</td>
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</tr>
<tr>
<td>Foreign Language#</td>
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<td>Foreign Language</td>
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<td>En 101—English Composition@</td>
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</tr>
<tr>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

| Sophomore Year                                      |           |                                                     |           |
| Ch 120—Prins. Physical Chem.                       | 3         | BI 300—Vert. Embryology                             | 2         |
| Ch 151—Analytical Chem.                             | 1         | BI 301—Vert. Embryology Lab                         | 2         |
| Ph 108—Univ. Physics I                              | 3         | Ph 107—Introductory Physics Lab II                  | 1         |
| Ph 105—Introductory Physics Lab I                   | 1         | Foreign Language                                     | 3         |
| Foreign Language                                    | 3         | Philosophy Area I                                   | 3         |
| Humanities Elective (U.L.)                          | 3         | Humanities Elective (U.L.)                          | 3         |
|                                                     | 17        |                                                     |           |
| **Total**                                           |           | **Total**                                            | 17        |

| Junior Year                                          |           |                                                     |           |
| BI 310—Comp. Anal. Verte.                           | 2         | BI 230—Genetics                                     | 3         |
| Ch 240—Organic Chem. I                              | 2         | Ch 243—Organic Chem. II Lab                         | 1         |
| Ch 241—Organic Chem. I Lab                          | 1         | History II (100-level Elective)#                    | 3         |
| History I (100-level Elective)#                     | 3         | Philosophy Area II                                  | 3         |
| Humanities Elective                                 | 3         | Theology Elective                                   | 3         |
|                                                     | 14        |                                                     |           |
| **Total**                                           |           | **Total**                                            | 16        |

| Senior Year                                          |           |                                                     |           |
| Ch 190—Chemical Lit.**                              | 1         | Theology Elective                                   | 3         |
| Ps 101—General Psychology                           | 3         | Philosophy Area IV                                 | 3         |
| Theology Elective                                   | 3         | Social Science Elective                             | 3         |
| Philosophy Area III                                 | 3         | BI 320, Ch, or Ph                                  | 2-4       |
| Humanities Elective                                 | 3         | BI 398, Ch 398, or Ph                               | 1         |
| BI 360, Ch, or Ph**                                 | 2-4       |                                                     |           |
| BI 398, Ch 398 or Ph                                |           |                                                     |           |
|                                                     | 16-18     |                                                     | 12-14     |

*Recommended of those planning to take Ch 388 and 398, otherwise the course need not be taken.**

**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.

*Note: Students are advised to plan a four-year course.*

---

### The Bachelor of Science (Natural Sciences)
*(For Pre-Medical and Pre-Dental Students)*

The Natural Sciences curriculum for pre-medical and pre-dental students presents a liberal arts program with emphasis on those sciences required for an adequate background for subsequent studies in medicine, 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-semester hours in a science concentration, and a 3 semester hour course in General Psychology. (The final requirement reduces the University requirement in social sciences to 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.
**Pre-Dental (Three and Four Year Programs)**

**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch 110—Gen. Chem. I</td>
<td>3</td>
<td>Ch 112—Gen. Chem. II</td>
<td>3</td>
</tr>
<tr>
<td>Ch 111—Gen. Chem. I Lab</td>
<td>1</td>
<td>Ch 113—Gen. Chem. II Lab</td>
<td>2</td>
</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
<td>Mt 146—Elementary Statistics</td>
<td>3</td>
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<tr>
<td>Foreign Language#</td>
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<td>En 101—English Composition@</td>
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<tr>
<td><strong>Total</strong></td>
<td>14</td>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

| **Sophomore Year** |          |                |          |
| Ph 108—Univ. Physics I | 3 | Ph 110—Univ. Physics II | 3 |
| Ph 105—Introductory Physics Lab I | 1 | Ph 107—Introductory Physics Lab II | 1 |
| Ps 101—General Psychology | 3 | Bi 300—Vert. Embryology | 2 |
| History I (100-level Elective)# | 3 | Bi 301—Vert. Embryology Lab | 2 |
| Philosophy Area I | 3 | History II (100-level Elective)# | 3 |
| Foreign Language | 3 | Philosophy Area II | 3 |
| Foreign Language | 3 |                |          |
| **Total** | 16 | **Total** | 17 |

| **Junior Year** |          |                |          |
| Bi 310—Comp. Anat. Verte. | 2 | Bi 230—Genetics | 3 |
| Bi 311—Comp. Anat. Verte. Lab | 2 | Philosophy Area III | 3 |
| Ch 240—Organic Chem. I | 3 | Ch 242—Organic Chem. II | 3 |
| Ch 241—Organic Chem. I Lab | 1 | Ch 243—Organic Chem. II Lab | 1 |
| Humanities Elective (Lit.) | 3 | Theology Elective | 3 |
| Th 111—Intro. to Theology | 3 | Humanities Elective (Lit.) | 3 |
| **Total** | 14 | **Total** | 16 |

If the student plans to continue his education and obtain a B.S. (Natural Sciences), the following program is necessary:

| **Senior Year** |          |                |          |
| Ch 190—Chemical Lit.* | 1 | Philosophy Area IV | 3 |
| Theology Elective | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Ch 120—Prin. Physical Chem. | 3 | Social Science Elective | 3 |
| Ch 151—Analytical Chem. | 1 | Bi 320 or Ch or Ph | 2-4 |
| Bi 360 or Ch or Ph | 2-4 | Bi 399 or Ch 398 or Ph | 1 |
| Bi 398 or Ch 398 or Ph | 1 |                |          |
| **Total** | 15-17 | **Total** | 15-17 |

*Courses in Social Science, Humanities, Philosophy or Theology may be taken in the Freshman year and the start of languages 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 or Chemistry or Physics. Consult Chairmen for departmental offerings.

@Required, unless exempted through a test-out program. See page 34.

#See Curricular Requirements, pages 33–35.
PRE-PHARMACY 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 also 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 Science 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.

### PRE-PHARMACY PROGRAM

<table>
<thead>
<tr>
<th>Year</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>Mt 150—Elem. of Calculus I #</td>
<td>3</td>
<td>Mt 151—Elem. of Calculus II #</td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
</tr>
<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>1</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Ps 101—Gen. Psychology</td>
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<td>En 101—English Comp.%</td>
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<table>
<thead>
<tr>
<th><strong>Sophomore Year</strong></th>
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<th></th>
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<tbody>
<tr>
<td>Ch 240—Organic Chem. I</td>
<td>3</td>
<td>Ch 242—Organic Chem. II</td>
</tr>
<tr>
<td>Ch 241—Organic Chem. I Lab</td>
<td>1</td>
<td>Ch 243—Organic Chem. II Lab</td>
</tr>
<tr>
<td>Ph 104—College Physics I</td>
<td>3</td>
<td>Ph 105—College Physics II</td>
</tr>
<tr>
<td>Ph 105—Introductory Physics Lab I</td>
<td>1</td>
<td>Ph 107—Introductory Physics Lab II</td>
</tr>
<tr>
<td>Mt 146—Elementary Statistics</td>
<td>3</td>
<td>Bi 212—Bacteriology*</td>
</tr>
<tr>
<td>History I (100-level) Elective†</td>
<td>3</td>
<td>Philosophy Area III</td>
</tr>
<tr>
<td>En—Literature</td>
<td>3</td>
<td>Ec 102—Microeconomic Principles</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

*If completed in high school, substitute literature course.
†If tested out, replace with literature. Required unless exempted by a test-out program. See page 34.

*Some Colleges of Pharmacy also require Bacteriology Lab (Bl 213).
#See Curricular Requirements, page 33.
LIBERAL ARTS DEGREE WITH BUSINESS OPTION

The values inherent in a liberal arts education are attractive to many prospective students. The more pragmatic aspects of life tend to offset such values in the minds of some people. The University offers students the opportunity to resolve this ambivalence in a number of University majors which provide sufficient free elective hours in certain arts and science degree programs. By taking the following courses, in addition to the degree program, the student can obtain an adequate introductory business background.

**Required Courses in the Business Option**
- Ac 100 Principles of Accounting I .................................................. 3 Sem. Hrs.
- Ec 101 Macroeconomic Principles .................................................. 3 Sem. Hrs.
- Mg 100 Principles of Management* .................................................. 3 Sem. Hrs.

**Optional Courses in the Business Option**
- BA 280 Legal Environment* .......................................................... 3 Sem. Hrs.
- IS 100 Principles of Data Processing .............................................. 3 Sem. Hrs.
- Mk 100 Principles of Marketing* ................................................... 3 Sem. Hrs.

* These courses can be taken to fulfill the social science electives in the general University curricular requirements. A maximum of six (6) semester hours of these courses can be applied to the social science requirement. The second semester Principles of Accounting (Ac 101) is highly recommended also if the student elects these courses to fulfill the social science elective requirements. Students are additionally encouraged to take Ec 102 Microeconomic Principles.

The following majors in the College of Arts and Science provide a sufficient number of free elective hours to complete this program:

Communications Arts, Economics, English, History, Mathematics, Modern Languages, Philosophy, Political Science, Sociology, Theology, and Urban Studies.

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**A.B. AND B.S. DEGREES (Three Year Programs)**

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

<table>
<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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<td>Major I</td>
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<td>Major II</td>
<td>3</td>
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<td>History I (100-level Elective)*</td>
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<td>Philosophy Area II</td>
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<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>3</td>
<td>History II (100-level Elective)*</td>
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<tr>
<td>Fl 1—Language*</td>
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<td>Fl II Language</td>
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<tr>
<td>Philosophy Area I</td>
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<td>Theology Elective</td>
<td>3</td>
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<tr>
<td>Mt 149—Elementary Functions</td>
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<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
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</tr>
<tr>
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<tr>
<td><strong>Total</strong></td>
<td>21</td>
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</tbody>
</table>

| **Second Year** |           |                 |           |
| Major III | 3 | Major V | 3 |
| Major IV | 3 | Major VI | 3 |
| Ec 101—Macroeconomic Principles | 3 | Ec 102—Microeconomic Principles | 3 |
| Mt 149—Elementary Functions | 3 | Mt 150—Elements of Calculus I | 3 |
| Philosophy Area I | 3 | Philosophy Area IV | 3 |
| Humanities Elective (Lit.) | 3 | Fl 255—Business Finance | 3 |
| Fl III Language | 3 | Fl IV Language | 3 |
| **Total** | 21 |                 | 21 |

| **Third Year** |           |                 |           |
| Major VII | 3 | Major IX | 3 |
| Major VIII | 3 | Major X | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Theology Elective | 3 | Theology Elective | 3 |
| Mk 100—Prin. of Marketing | 3 | BA 270—Business Statistics | 3 |
| Ac 100—Prin. of Accounting I | 3 | Ac 101—Prin. of Accounting II | 3 |
| **Total** | 18 |                 | 18 |

*See Curricular Requirements, pages 33-35.

* This program fulfills all University graduation requirements in the College of Arts and Science 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.
COOPERATIVE SCIENCE—ENGINEERING PROGRAM

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

Those students interested in Aerospace, Civil and Environmental, Electrical and Computer, Engineering Science, Mechanical, Industrial, or Nuclear Engineering 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 students will be awarded a B.S. (Applied Physics) or a B.S. (Applied Chemistry) by Xavier University and a B.S. 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. from the University of Cincinnati upon the successful completion of the college and department requirements for the appropriate engineering degree.

II. Curricular Calendar.

A. Years 1 to 3
1. 94 semester hours (141 qtr. hrs.) of liberal arts and science courses at Xavier University.
2. Four prerequisite engineering courses at the University of Cincinnati, these four courses to include the two in engineering graphics, plus two from the freshman/sophomore 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.

I. Academic Degrees.

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

II. Curricular Calendar.

A. Years 1 to 3
1. 94 semester hours (141 qtr. hrs.) of liberal arts and science courses at Xavier University.
2. Four prerequisite engineering courses at the University of Cincinnati, these four courses to include the two in engineering graphics, plus two from the freshman/sophomore 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 Univ—Univ of Cincinnati Cooperative Engineering Program
B.S. (Applied Chemistry)
Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td><strong>Sophomore Year</strong></td>
</tr>
<tr>
<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>
</tr>
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<td>Mt 170—Calculus I</td>
<td>Mt 160—Vectors and Geometry</td>
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<td>Ph 108—Univ. Physics I</td>
<td>Ph 110—Univ. Physics II</td>
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<td>Ph 105—Intro. Physics Lab I</td>
<td>Ph 106—Intro. Physics Lab II</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Th 111—Intro. to Theology</td>
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<tr>
<td>Philosophy Area I</td>
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<td>Total</td>
</tr>
<tr>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

**Sophomore Year**

| Ch 130—Physical Chemistry I | Ch 132—Physical Chemistry II |
| Ch 131—Physical Chemistry I Lab | Ch 133—Physical Chemistry II Lab |
| Mt 171—Calculus II | Mt 215—Differential Equations |
| Philosophy Area II | Theology Elective |
| En 115—Literature and Comp. I | Humanities Elective (Lit.) |
| Total | Total |
| 16 | 19 |

**Junior Year**

| Ch 240—Organic Chemistry I | Ch 242—Organic Chemistry II |
| Ch 241—Organic Chemistry I Lab | Ch 243—Organic Chemistry II Lab |
| Mt 220—Advanced Calculus I | Mt 230—Advanced Calculus II |
| History I (100-level Elective)@ | History II (100-level Elective) |
| Philosophy Area III | Theology |
| Engineering (U.C.) | Engineering (U.C.) |
| Total | Total |
| 17 | 16 |

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 on alternate years.
@See Curricular Requirements, page 33.
### Degree Programs—
The 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 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>
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</thead>
<tbody>
<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Ec 101, 102</td>
<td>Macroeconomic Principles, Microeconomic Principles</td>
<td>6</td>
</tr>
<tr>
<td>Is 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>Fl 250</td>
<td>Money and Banking</td>
<td>3</td>
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<tr>
<td>Fl 255</td>
<td>Business Finance</td>
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<tr>
<td>Mg 100</td>
<td>Principles of Management</td>
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<tr>
<td>Mk 100</td>
<td>Principles of Marketing</td>
<td>3</td>
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<td>BA 270</td>
<td>Business Statistics</td>
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<tr>
<td>BA 280</td>
<td>Legal Environment</td>
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<td></td>
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<td>36</td>
</tr>
</tbody>
</table>

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 33.

*These courses offered on alternate years.
**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 industrial accountants; independent and internal auditors; credit analysis and general business executives. The advanced courses which elaborate on the theory and practice of accounts, business analysis, costs, auditing and specialized accounting culminate in preparation for C.P.A. examinations and for actual entrance into the field of public accountancy.

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

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.

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**B.S.B.A. (Accounting)**

**Recommended Sequence of Program**

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<thead>
<tr>
<th>First Semester</th>
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<td><strong>Sem.</strong></td>
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<td><strong>Freshman Year</strong></td>
<td><strong>Sophomore Year</strong></td>
</tr>
<tr>
<td>Ac 100—Prins. of Accounting</td>
<td>Ac 201—Intern. Accounting</td>
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<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
<td>BA 270—Business Statistics</td>
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<tr>
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<td>3</td>
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<tr>
<td>Mt 149—Elementary Functions*</td>
<td>Mg 100—Prins. of Management</td>
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<tr>
<td>Philosophy Area I</td>
<td>Theology Elective</td>
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*Required, unless exempted through a test-out program. See page 34.

@See Curricular Requirements, page 34.
# 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: Ec101 Macroeconomic Principles; Ec 102 Microeconomic Principles; Ec 200 Microeconomic Analysis; Ec 201 Macroeconomic Analysis; Ec 250 Money and Banking; Ec 345 International Economics; Ec 377 Managerial Economics; and nine semester hours of economic electives. The business core curriculum and the general University curriculum must also be fulfilled for degree requirements.

## B.S.B.A. (Economics)

### Recommended Sequence of Program

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Second Semester</th>
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<td>Ec 101—Microeconomic Principles</td>
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*Required, unless exempted through a test-out program. See page 34.

@See Curricular Requirements, page 34.
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. Every one 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 of 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 257 Quantitative Methods in Finance; FI 265 Investments; FI 301 Financial Management; FI 380 Cases and Problems in Finance; and six (6) semester hours of finance elective courses.

All finance majors are strongly urged to take Ac 200 and 201, Intermediate Accounting.

<table>
<thead>
<tr>
<th>B.S.B.A. (Finance)</th>
<th>Recommended Sequence of Program</th>
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<td>En 101—English Composition*</td>
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*Required, unless exempted through a test-out program. See page 34.
@See Curricular Requirements, page 34.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Industrial Relations)

In an industrial society which is becoming more complex and interdependent, the need for leaders in the area of industrial relations 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 in Industrial Relations: IR 210 Human Resources; IR 300 Labor Relations; IR 330 Industrial Psychology; and twelve (12) semester hours of electives in the specialized field of Industrial Relations.

### Recommended Sequence of Program

#### Freshman Year

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<td>Th 111</td>
<td>Intro. to Theology</td>
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#### Sophomore Year

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<td>Mg 100</td>
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</table>

Total: 15

*Required, unless exempted through a test-out program. See page 34.

@See Curricular Requirements, page 34.
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 computers.

The number of required hours for an Information Systems major is 21 hours including the required beginning course (IS 100 Principles of Data Processing). Required courses are as follows:

- IS 100 Principles of Data Processing 3 sem. hrs.
- IS 331 Applied Quantitative Methods for Business 3 sem. hrs.
- IS 341 Systems Analysis and Design 3 sem. hrs.
- IS 342 Fortran Programming 3 sem. hrs.
- IS 344 COBOL Programming 3 sem. hrs.
- IS 345 Data Processing Information Systems 3 sem. hrs.
- IS or CS electives 3 sem. hrs.

The Bachelor Degree in Information Systems is designed for individuals who aspire to a career in one of the following positions:

- Programmer/Analyst
- Systems Analyst
- Information Systems Manager

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Information Systems)

Recommended Sequence of Program

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Sophomore Year

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<td>BA 280—Legal Environment 3</td>
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<td>IR 210—Human Resources 3</td>
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Junior Year

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</table>

*Required, unless exempted through a test-out program. See pages 34. 
@See Curricular Requirements, page 34.
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 to prepare him for leadership in society.

The number of required hours for a management major is 21 hours, including the required beginning courses (Mg 100 Principles of Management and Mg 331 Applied Quantitative Methods for Business). All other Management courses are open to the candidate as possible electives for his major.

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
- Pre-law

*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

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</tbody>
</table>

*Required, unless exempted through a test-out program. See page 34.
@See Curricular Requirements, page 34.
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 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**

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<td>Ac 100—Prins. of Accounting</td>
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<td>Ac 101—Prins. of Accounting</td>
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<td>Ec 101—Macroeconomic Principles</td>
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<td>Mt 149—Elementary Functions</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>IS 100—Prin. of Data Processing</td>
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<td>En 101—English Composition</td>
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<td>BA 280—Legal Environment</td>
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<td>BA 270—Business Statistics</td>
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<td>IR 210—Human Resources</td>
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<td>Fi 255—Business Finance</td>
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<td>Mk—Elective</td>
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<td>Mk 202—Marketing Research</td>
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<td>Mk—Elective</td>
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<td>Mk 331—Appl. Quan. Meth. for Bus.</td>
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<td>Theology Elective</td>
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<td><strong>Senior Year</strong></td>
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<td>Ec 250—Money and Banking</td>
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<td>Mk 299—Marketing Planning &amp; Analysis</td>
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<td>Mk 204—Marketing Management</td>
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<td>Theology Elective</td>
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<td>MK—Elective</td>
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*Required, unless exempted through a test-out program. See page 34.
@See Curricular Requirements, page 34.
The College of Arts and Sciences

Departments—

Biology (BI)

Staff: DR. CUSICK, chairman; DR. CHAMBERS, DR. FINKE, DR. HEDEEN, FR. PETERS, MR. PETRI, DR. TAFURI

Laboratory Instructors: MRS. CUSICK, MR. PECQUET

BI 120-128 may not be taken for biology major, pre-medical, or pre-dental requirements.

BI 110-111 and 112-113 are required as introduction to all 200 level courses. In exceptional cases, BI 102-105 may be considered as full or partial fulfillment. Additional prerequisites are listed with specific courses.

(*) Courses so designated are approved as electives for curricular requirements in science, subject to limitations as indicated.

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

Lower Division Courses

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

107 HUMAN ANATOMY AND PHYSIOLOGY LABORATORY. (1) Human skeletal material and dissection of a representative mammal. Histology of tissues and organs with physiological exercises and demonstrations.

108 HUMAN ANATOMY AND PHYSIOLOGY II. (2) Continuation of BI 106 stressing the circulatory, excretory, nervous, endocrine, and reproductive systems.

109 HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY. (1) Continuation of anatomical approach of BI 107 with related physiological studies and demonstrations.

*110 GENERAL ZOOLOGY I. (2) Principles of biology, classical and molecular, emphasizing the anatomy, physiology, development, and behavior of vertebrates. Introduction to most 200 level courses.

*111 GENERAL ZOOLOGY I LABORATORY. (2) The frog and microscopic study of vertebrate tissues. Development and physiological characteristics of cells, tissues, organs, plus vertebrate behavior.

*112 GENERAL ZOOLOGY II. (2) A continuation of BI 110. Invertebrate phyta: morphology, physiology, classification, life histories, and behavior. Topics in heredity, evolution and ecology.

*113 GENERAL ZOOLOGY II LABORATORY. (2) Each major phylum is studied with extensive use of living organisms. Genetic materials, fossils, invertebrate behavior patterns, and ecological principles are examined.

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.

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.

*120 LIFE. (2) Man, environment, and other living things. Cells to populations: heredity, evolution, ecology, development, reproduction, behavior, plants, microbes and human life.

*123 LIFE LABORATORY. (1) Each semester to accompany BI 120-128. Exercises, experiments, and field trips.

195 DIRECTED STUDY. Credit to be arranged.
Biology

Upper Division Courses

200 GENERAL BOTANY. (3) The morphology, physiology, reproduction of representatives of each plant division are studied. Seed plants are stressed. Prerequisite: BI 102-105 or BI 110-113.

201 GENERAL BOTANY LABORATORY. (1) Living and preserved specimens of representatives of the various plant groups are studied. Demonstration of pertinent principles of plant physiology.

212 BACTERIOLOGY. (2) The morphology, classification, physiology and genetics of bacteria including the impact of these organisms on man. Prerequisite: BI 110-113

213 BACTERIOLOGY LABORATORY. (2) The techniques for isolation, identification, culturing, and physiological study of bacteria.

220 CELL BIOLOGY. (2) A contemporary view of cell structure and function. Prerequisite: BI 110-113.


231 GENETICS LABORATORY. (1) Techniques of investigating fundamental genetic principles. The fruit fly as an experimental animal with studies of bacterial genetics.

240 EVOLUTION. (2) Evidence for and the mechanisms of evolutionary processes. Prerequisite: BI 120-128 or BI 110-113.

244 ANIMAL BEHAVIOR. (2) Relates innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisite: BI 120-128 or BI 110-113.

250 ECOLOGY. (2-3) The relationships between organisms and their living and non-living environments. Prerequisite: BI 120-128 or BI 110-113.

251 ECOLOGY LABORATORY. (1-2) Laboratory and field exercises to illustrate ecological principles. Local aquatic and terrestrial habitats are investigated and their biotic elements identified.

270 PARASITOLOGY. (2) Animal parasites: their life cycles, morphology, physiology, host-parasite relationships, and implications in disease. Prerequisite: BI 110-113.

271 PARASITOLOGY LABORATORY. (2) Living and preserved specimens illustrating the life cycles of major parasitic forms.

280 TOPICS IN BIOLOGY. (1-3) Short term courses designed to explore biological phenomena of current interest. Prerequisite: BI 102-105 or BI 110-113.

290 SPECIAL PROBLEMS IN BIOLOGY. (1-4) Independent study in some specialized area of biology. Prerequisite: permission of the Chairman. Laboratory fee.

300 GENERAL AND VERTEBRATE EMBRYOLOGY. (2) The morphological and physiological aspects of vertebrate development.

301 GENERAL VERTEBRATE EMBRYOLOGY LABORATORY. (2) A study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis. Living materials illustrate principles of development.

310 COMPARATIVE ANATOMY OF THE VERTEBRATES. (2) The morphology and morphogenesis of the vertebrates and their evolution. Prerequisite: BI 300.

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.

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.

321 GENERAL HISTOLOGY LABORATORY. (2) A microscopic study of fixed materials employing routine and histochemical techniques to demonstrate cell, tissue, and organ morphology.

Chemistry

*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.

*103 MEN, MOLECULES AND THE ENVIRONMENT I LABORATORY. (1) Chemical experimentation which illustrates the applications described in Ch 102. Field trips will be included.

*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.

*105 MEN, MOLECULES AND THE ENVIRONMENT II LABORATORY. (1) A continuation of Ch 103.

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.


111 GENERAL CHEMISTRY I LABORATORY. (1) Practice in the basic operations of laboratory work. Experiments illustrate topics and principles covered in Ch 110. One three-hour period per week.

112 GENERAL CHEMISTRY II. (3) A continuation of Ch 110. Subjects include aqueous equilibrum, thermodynamics, electrochemistry, and the chemistry of representative elements. Prerequisite: Ch 110.
PRINCIPLES OF CHEMISTRY. (3) A survey of general and organic chemistry for those programs requiring a one semester course.

PRINCIPLES OF CHEMISTRY LABORATORY. (1) A laboratory course to accompany Ch 116.

PHYSICAL CHEMISTRY I. (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.

PHYSICAL CHEMISTRY II. (3) A continuation of Ch 230. Chief emphasis is on chemical kinetics and the states of matter. Prerequisite: Ch 230.

PHYSICAL CHEMISTRY II LABORATORY. (1) A course to accompany Ch 232 and to illustrate, by selected experiments, principles discussed in Ch 232. Prerequisite: Ch 231.

ORGANIC CHEMISTRY I. (3) An introductory course treating the structure, preparation, reactions, and properties of organic compounds. Prerequisite: Ch 112.

ORGANIC CHEMISTRY I LABORATORY. (1) The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: Ch 113.

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.

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.

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.

INORGANIC CHEMISTRY. (3) Modern theories of bonding and structure. Acid-base and redox chemistry based on thermodynamic principles. Coordination compound chemistry. Prerequisite: Ch 330.

INORGANIC CHEMISTRY LABORATORY. (1) Laboratory techniques and practice in synthetic inorganic chemistry. One laboratory period per week. Corequisite: Ch 260.

INSTRUMENTAL ANALYSIS. (2-3) Discussion of modern analytical chemistry with emphasis on instrumentation and measurement techniques. Prerequisite: Ch 232.

INSTRUMENTAL ANALYSIS LABORATORY. (2) Practice in the use of chemical instrumentation as available. Two three-hour periods per week. Prerequisites: Ch 233, 280.

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.

Graduate Courses

RAPID STUDY. Credit to be arranged.

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.

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 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.

RADIOCHEMISTRY. (2) Principles of radiochemistry, properties of nuclides, advanced instrumental techniques, and methodology of radiochemical applications. Prerequisite: Ch 320 or its equivalent.

RADIOCHEMISTRY LABORATORY. (1-2) Laboratory and instrumental technique in radiochemistry. Prerequisite: Ch 320. Corequisite: Ch 550.

THERMODYNAMICS. (2) Classical and statistical thermodynamics and the kinetic theory of gases.

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.

THE CHEMICAL BOND. (2) An introduction to the quantum theory of valence emphasizing calculations on molecular structure.

INTRODUCTION TO VIBRATIONAL SPECTROSCOPY. (2) The theory of vibrational-rotational molecular spectroscopy.

ORGANIC STEREOCHEMISTRY. (2) Fundamental structural theory applied to organic compounds. Geometrical, optical, and conformational isomerism. The stereochemical factors in certain organic reactions.
Classics

555 HETERO CYCLIC ORGANIC CHEMISTRY. (2) The application of fundamental organic reactions as applied to the heterocyclic organic molecules. Two lectures per week.

570 NEWER METHODS OF SYNTHETIC ORGANIC CHEMISTRY. (2) Treatment of recently developed reagents, techniques, and processes in synthetic organic chemistry.

580 ADVANCED ORGANIC PREPARATIONS. (1-3) Lectures and/or consultation, and three hours of laboratory work per week per credit hour. A laboratory course.

590 ORGANIC REACTION MECHANISMS. (2) Theories of reaction mechanisms in organic systems and the experimental bases for these theories.

595 ORGANOMETALLIC CHEMISTRY. (2) Organometallic compounds and their chemistry. Synthesis, isolation, bonding, structure, and reactions are covered.

610 TRANSITION METAL CHEMISTRY. (2) The structure and reactions of coordination compounds based on an adjusted crystal field approach.

612 ADVANCED INORGANIC CHEMISTRY. (2) The structure, bonding, and periodic properties of the representative elements. Acid-base and redox reactions will be covered.

630 ADVANCED BIOCHEMISTRY. (2) A review and extension of fundamental biochemistry. Lectures supplemented by library assignments. Prerequisite: Ch 370 or its equivalent.

640 MEDICINAL CHEMISTRY. (2) The organic chemistry of medicinal products. Structure-activity relationships will be stressed.

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.

670 CHEMICAL MEASUREMENTS. (2) Methods for measuring the properties of chemical systems. Modern methods will be stressed, especially those based on the optical and electrical properties of systems.

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.

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 equivalent.

690, 695 SPECIAL TOPICS. (2) Selections from the four major fields of chemistry. Varied topics representative of important phases of chemistry not treated in regular course work.

694 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.

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.

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.

Classics

Staff: DR. RETTIG, chairman; FR. BURKE, FR. FELTEN, DR. GRAF, DR. MURRAY

(1) Courses so designated are approved as electives for curricular requirements in humanities, subject to limitations as indicated.

Classical Culture (CI)

NOTE: Courses with the CI designation require no knowledge of an ancient language.

Classics

Upper Division Courses

202 HISTORY OF ANCIENT GREECE. (3) The prehistoric period to the Hellenistic Age. (Gk 202, Hs 202).

206 HISTORY OF ANCIENT ROME. (3) The legendary beginnings. The period of the republic. (Hs 206, Lt 206).

*241 GREEK LITERATURE IN TRANSLATION. (3) Masterworks of classical Greece: the epic, comedy, tragedy, lyric, the historians and philosophers. (En 241).

*244 LATIN LITERATURE IN TRANSLATION. (3) Great works of ancient Rome: drama, epic, didactic poetry, lyric, satire, the "novel", history. (En 244).

*248 CLASSICAL MYTHOLOGY. (3) The major myths reflected in ancient Greek and Latin literature. The meaning of the myths. Their influence on later ages. (En 248).

*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.

*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).

395 DIRECTED STUDY. Credit to be arranged.

Greek (Gk)

Lower Division Courses

101 ELEMENTARY GREEK. (5) One semester. The ancient Greek language. Syntax, vocabulary and morphology. The skills necessary to read ancient Greek.

102 INTRODUCTION TO GREEK LITERATURE. (5) One semester. A continuation of Gk 101 with readings from simpler Greek texts.

*151 HOMER. (3) Readings from The Iliad.

*152 HOMER. (3) Selected portions of The Odyssey.

*162 EURIPIDES: MEDEA. (3)

*172 PLATO. (3) The Apology and other selections.

Upper Division Courses

*202 HISTORY OF ANCIENT GREECE. (3) (Hs 202).

*251 HOMER: ILIAD. (3) A study of the Greek epic.

252 HOMER: ODYSSEY. (3)

*260 SOPHOCLES. (3) The Oedipus Tyrannus and Antigone.

262 EURIPIDES. (3)

*331 THUCYDIDES. (3-4)

363 AESCHYLUS. (3)

*371 PLATO: THE REPUBLIC. (3)

*388 HISTORY OF GREEK LITERATURE. (3)

*397 SPECIAL STUDY. Credit to be arranged. Greek poetry.

*398 SPECIAL STUDY. Credit to be arranged. Greek prose.

399 SENIOR COMPREHENSIVE REVIEW. (2)
Classics

Hebrew (He)

Lower Division Courses

111  ELEMENTARY BIBLICAL HEBREW I. (3)
112  ELEMENTARY BIBLICAL HEBREW II. (3)
121  INTERMEDIATE BIBLICAL HEBREW I. (3)
122  INTERMEDIATE BIBLICAL HEBREW II. (3)

Latin (Lt)

Lower Division Courses

101  ELEMENTARY LATIN. (3) The ancient Latin language. Syntax, vocabulary and morphology. The skills necessary to read Latin.
102  INTRODUCTION TO LATIN LITERATURE. (3) A continuation of Lt 101 with readings from simpler Latin texts.
115  INTERMEDIATE LATIN. (3) For students who have already had some Latin. Review of Latin grammar, syntax and vocabulary with some readings.
128  CICERO. (3) The De Senectute and/or the De Amicitia.
131  HORACE: ODES. (3)
151  VIRGIL: AENEID I-VI. (3)
153  VIRGIL: AENEID VII-XII. (3)
161  PLAUSUS AND TERENCE. (3) Selected readings.

Upper Division Courses

120  HISTORY OF ANCIENT ROME. (3) (Hs 206).
111  LIVY. (3)
124  LATIN PROSE STYLE. (3)
121  CICERO: PRO MILONE. (3)
122  INTRODUCTION TO A STUDY OF THE LATIN FATHERS. (3)
123  HORACE: ODES. (3)
125  VIRGIL: AENEID. (3)
261  ROMAN COMEDY. (3)
301  ROMAN ORATORY. (3)
308  CAESAR. (3)
312  TACITUS: THE ANNALS. (3)
319  CICERO: LETTERS. (3)
328  CICERO: ESSAYS. (3)
331  HORACE: SATIRES, EPISTLES. (2-3)
332  CATULLUS. (3)
335  EARLY CHRISTIAN POETS. (3)
338  MEDIAEVAL LATIN. (3)
335  ROMAN SATIRE. (3)
388  HISTORY OF LATIN LITERATURE. (3)
391  LUCRETIUS. (3)
397  SPECIAL STUDY. Credit to be arranged. Latin poetry.
398  SPECIAL STUDY. Credit to be arranged. Latin prose.
399  SENIOR COMPREHENSIVE REVIEW. (2-3)

Communication Arts (CA)

Staff: FR. FLYNN, chairperson; MR. ADRICK, FR. HAGERTY, DR. KING, MR. MAUPIN
Assisted by: MR. ANTHONY, MR. BENKERT, FR. DRESSMAN, MS. DYE, MR. FREDRICKSON, MR. GUSHURST, MR. KVAPIL, MRS. MIMS, MR. POHLMAN, MR. SCHICK, MR. WILSON

(*) Courses so designated are approved as electives for curricular requirements in humanities, subject to limitations as indicated.

Basics

101  ORAL COMMUNICATION. (3) Speech fundamentals as applied to interpersonal, public and group speaking. Projects in listener analysis, development of ideas, and delivery.
102  VOICE AND D ICTION. (3) Principles and practice of voice production as applied to expression and vocal variety. Articulation, enunciation, and pronunciation, following IPA and dictionary usage.
122  WRITTEN COMMUNICATIONS AND REPORTS. (3) Basic written communication. Effective business letters and reports. Devices of practical communication.
200  INTERPERSONAL COMMUNICATION. (3) Understanding of and laboratory practice in effective communication between persons.
201  ORAL INTERPRETATION. (3) Projection, body control, communication of mood and emotion, and vocal amplification as related to public reading. Prerequisite or corequisite: CA 101, 102, or approval of chairman.
204  THEORIES OF MASS MEDIA. (3) Models and processes of mass communication. Reciprocal effects of media and audiences. Theorists studied: McLuhan, Lasswell, Katz and Lazarsfeld. Prerequisite: CA 203 or approval of instructor.
206  EFFECTIVE WRITING. (3) Basic elements of compositional style. Format for research writing. Open only to CA majors.

Film—Photography

208  PHOTOGRAPHY II. (3) Lecture-lab experience to improve skills in creating and developing quality photographs. Prerequisite: CA 207 or approval of instructor.
211  ART OF THE FILM. (3) Film as an art form, treating grammar, sound, color, light, motion, animation, editing, rhythm, and directors. Each student will make a short film connected with lab sessions.
213  MEDIA AESTHETICS. (3) Principles of visual and auditory aesthetics, as applied to motion pictures and television. Use of films, tapes and slides. Creative project required.
214  FILM CRITICISM. (3) Cultivating criteria for judging films, from viewing, analysis, reviews, and student critiques.
215  NON-FICTION FILM. (3) Documentary techniques of Grierson, Flaherty, Wiseman and others. Methods used in the propaganda films of Riefenstahl and Capra. Student project.
216  FILM MAKING TECHNIQUES. (3) Basic studies in the making of a film—economic, social, technical, planning, shooting, and editing. Students will make short films.
Radio-Television

218 FUNDAMENTALS—RADIO-TV. (3) History and current developments in broadcasting. Basic technical matters which dictate the shape and form of the medium.

219 AUDIO PRODUCTION & TECHNOLOGY. (3) Technical and theoretical basis. Projects involving WVXU-FM in learning techniques of tape editing, special effects, commercial production, and documentary production. Lab—WVXU-FM.

220 BROADCAST ANNOUNCING. (3) Career qualifications. Principles, preparation, and delivery of announcements, newscasts, and other projects. Lab work in WVXU-FM and TV studio. Prerequisite: CA 102 and CA 219 or approval of instructor.

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.

222 BROADCAST MANAGEMENT. (3) Study of station management, organization, and operational techniques. Prerequisite: CA 218.

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.

224 ADVANCED TV PRODUCTION. (3) Theories and techniques of control-room directing: staging, pacing, acting, dramatic effect, audience influence, and analysis of professional productions. Prerequisite: CA 221.

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.

226 BROADCAST STATION SALES. (3) Broadcast media as advertising vehicles. Station advertising, sales philosophy, operation, rates, ratings, analysis, guests and class sales, presentations. Role of advertiser, agency, and REP. Prerequisite: CA 219, 222.

227 CONTINUITY WRITING. (3) Announcement and program writing for radio and television. Broadcast styles, scripts, and formats. Lab—WVXU-FM. Prerequisite: En 101.

228 PUBLIC BROADCASTING. (3) A constructive community force. Supplementing commercial broadcasting. Contrast in funding, program sources, quality of content, ownership, general and specific problems, FCC regulations, and response to cultural ideals and needs. Prerequisite: CA 218.

229 TV TECHNIQUES FOR TEACHERS. (3) Role of instructional television in instructional technology. Use of television as a learning tool and guidance in solving problems through planning and executing video tape programs in the studio.

230 SPECIAL EFFECTS: TV PRODUCTION. (3) Application of film, graphics, animation, lighting, studio and electronic effects to production of programs. Lab work in campus TV Studio. Prerequisite: CA 221.

231 RADIO LAB. (1) Lab #1. Experience under station WVXU-FM operation conditions. Prerequisites: CA 218, 219, 221.

232 TELEVISION LAB. (1) Lab #2. Experience in TV Studio for the R-TV area. Prerequisites: CA 218, 219, 221, 232.

233 BROADCAST LAB. (1) Advanced Lab #3 in R-TV area. Prerequisites: CA 218, 219, 221, 232, 233.

Journalsim (Print/Broadcast)-Public Relations

237 SURVEY: JOURNALISM (Print/Broadcast)-PUBLIC RELATIONS. (3) Objectives, history, and problems of print journalism, broadcast journalism, and public relations. Broadcast journalism and public relations as distinct areas of concentration. Opportunities.

238 NEWS WRITING. (3) Principles, theory, and development of skills, using the typing lab, in three forms of writing: news releases, news letters, and feature stories. Prerequisite: CA 237 and satisfactory grade in typing test.
Practicums and Internships

Practicums involve three hours of work weekly in privately-directed study for one hour of credit in areas listed below, repeatable up to four hours. Arrangements must be made with the instructor, including written approval of chairman. Internships are available to advanced students only, on application and approval of a screening board before registration. They require ten hours of work weekly for three hours of credit.

271 PRACTICUM IN FILM. (1)
272 PRACTICUM IN J-PR. (1)
273 PRACTICUM IN SPEECH. (1)
275 INTERNSHIP IN FILM. (3)
276 INTERNSHIP IN J-PR. (2-3)
277 INTERNSHIP IN R-TV. (3)

Workshops and Institutes

283 WORKSHOP: RADIO STATION OPERATION—WVXU-FM. (2)
284 WORKSHOP: TELEVISION AND EDUCATIONAL RESOURCES. (2)
288 INSTITUTE: MEDIA TRAINING. (2)
299 SPECIAL STUDY. Credit to be arranged. Applicable to all areas and to all students.

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.


124 "BASIC" PROGRAMMING. (1) Use of Xavier time-sharing system. Elements of the BASIC language. Programming elementary problems.

125 INTRODUCTION TO COMPUTING A. (2) Use of the Xavier time-sharing system. Introduction to programming. The BASIC Language. Applications. Both CS 124 and 125 may not be taken for credit.


136 NUMERICAL CALCULUS II. (2) Computer implementation of the algorithms taught in CS 135 and additional topics. Corequisite: CS 135.

197 SPECIAL READINGS. Credit to be arranged.

255 ASSEMBLER LANGUAGE. (3) Features of the IBM 360, data representation, number systems, data movement, arithmetic, program control. Prerequisite: CS 125. (IS 348)

256 ASSEMBLER LANGUAGE LAB. (1) Substantial programming project in the IBM 360 assembler language. Prerequisite: CS 255.
Economics

235. ECONOMIC HISTORY OF THE UNITED STATES. (3) The American economy from the period of colonization. The progress of population, agriculture, industry, domestic and foreign commerce, banking and finance, and transportation.

240. ECONOMIC GEOGRAPHY. (3) The economic implications of natural resources. Production of goods in relation to the development of agriculture, commerce, and industry in the United States and foreign countries.

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).

250. MONEY AND BANKING. (3) Prerequisite: Ec 101. (Fl 250).

300. LABOR RELATIONS. (3) (Ir 300).

310. CURRENT LABOR PROBLEMS. (3) (Ir 310).

311. HISTORY OF THE LABOR MOVEMENT. (3) (Ir 311).

313. LABOR LAW. (3) (Ir 313).

320. ECONOMIC THEORY AND SOCIAL ORDER. (3) Various economic systems. Ethical implications for the businessman. The market system, Marxism and Socialist theories. Christian social doctrine.

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 102.

335. PUBLIC FINANCE AND TAXATION. (3) Forms of taxation; incidence of taxation; borrowing, non-tax revenues; expenditures; the effects of government finance on the economy. Prerequisite: Ec 101. (Ps 335, Fl 335).


360. CURRENT ECONOMIC PROBLEMS. (3) Current problems: labor, monetary and fiscal policy, debt management, social security legislation and public regulation.

377. MANAGERIAL ECONOMICS. (3) Microeconomic analysis for decision making within the business firm. The relationship between theory and the decision process. Prerequisite: Ec 102.

395. SEMINAR IN ECONOMICS. (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: Ec 101, 102.

397. TUTORIAL COURSE. (2-3) Special reading and study for advanced students. Other courses are acceptable for a major in economics at the discretion of the Chairman or the student's advisor.

Graduate Courses


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).

532. BUSINESS FORECASTING. (3) (Ba 532).

535. BUSINESS AND PUBLIC POLICY. (3) (Ba 535).

538. ECONOMICS OF LABOR. (3) Determinants of the competitiveness of labor markets; study of economic determinants of employment levels. Seminar method is used. (Ba 538).

Education

539. SEMINAR: CURRENT ECONOMIC PROBLEMS. (3) (Ba 539).

540. INDUSTRIAL PRICING. (3) The basic conditions, market structure, conduct and performance of American industry. Pricing behavior of competitive and oligopolistic enterprises.

612. SEMINAR: COLLECTIVE BARGAINING. (3) (Ba 612).

695. SPECIAL STUDY. Credit by arrangement.

696. MASTER'S THESIS. (6)

Education (Ed)

Staff: Dr. Schweikert, chairman; Dr. Anderson, Mr. Baker, Mr. Brueneman, Ms. Bruning, Dr. N. Bryant, Dr. Clarke, Dr. Cosgrove, Dr. Daily, Ms. Drennan, Mr. Eick, Dr. Fry, Dr. Gaffney, Dr. Hanra, Dr. Homley, Dr. Klein, Mr. LaGrange, Dr. Link, Dr. Lozier, Dr. Mayans, Dr. McCoy, Ms. McDermott, Dr. Partridge, Mr. Pohlm an, Dr. Pruden, Dr. Quatman, Dr. Rinsky, Dr. Riordan, Ms. Rothschild, Mr. Scheurer, Dr. W. Smith, Mr. Sullivan, Dr. Voluse, Dr. Vordenberg, Dr. Wubbolding.

Assisted by: Mr. Adams, Mr. Blackwell, Dr. Booth, Mr. Brandt, Mr. Brockhoff, Mr. Conway, Mr. Dickson, Ms. Dornheggan, Mr. Draud, Ms. Dryer, Mr. Farkenstein, Mr. Ferguson, Dr. Frericks, Sr. Habig, Mr. Haley, Mr. Hitchen, Dr. Hosty, Dr. Lodge, Mr. Major, Mr. Meyer, Mr. Manigan, Mr. Melick, Dr. Mollica, Dr. O'Connor, Mr. Quinn, Mrs. Reber, Mr. Russ, Ms. Ryan, Mr. Seta, Ms. Shunk, Mr. Sioriano, Mrs. Toepker, Mr. Watson, Mrs. Wessel, Dr. Woodford, and the Department of Psychology.

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

Lower Division Courses

131. INTRODUCTION TO SECONDARY EDUCATION. (3) The past and present role of the secondary school in American society. Legal, moral, professional responsibilities. Career opportunities. Includes field experiences.


151. READING: SKILLS AND ACTIVITIES. (2)

Upper Division Courses

200. ADVANCED COMPOSITION FOR TEACHERS. (3) (En 200).

204. STUDENT TEACHING (ELEMENTARY). (5) Laboratory experience under the supervision of a critic teacher. One semester. Ed 304 is required concurrently. UNDERGRADUATE CREDIT ONLY.

206. LINGUISTICS. (3) (En 206).


211. CLINICAL EXPERIENCES. (1) Training in use of diagnostic materials. Field practice in diagnosis remediation.

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.
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. Includes field experiences.

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.

218 SOCIOLOGY OF EDUCATION. (2-3) (So 218).

220 INTRODUCTION TO SOCIAL WORK. (3) (So 220).

222 PRINCIPLES OF SOCIAL CASE WORK. (3) (So 222).

226 CHILDREN’S LITERATURE. (3) Interpretative and critical study of literature, classic and contemporary. For children and/or adolescents.

227 ADOLESCENT LITERATURE. (3)

229 TV TECHNIQUES FOR TEACHERS. (3-4) (CA 229).

231 DEVELOPMENTAL PSYCHOLOGY. (3) (Ps 231).

232 CHILD PSYCHOLOGY. (2-3) (Ps 232).

233 ADOLESCENT PSYCHOLOGY. (2) (Ps 233).

235 DIFFERENTIAL PSYCHOLOGY. (2) (Ps 235).

237 PSYCHOLOGY OF LEARNING. (3) (Ps 237).

239 PSYCHOLOGY OF MOTIVATION. (3) (Ps 239).

245 APPALACHIAN IN URBAN LIFE. (3) (So 245).

249 JOURNALISM FOR TEACHERS AND PUBLICATIONS ADVISORS. (2-3) (CA 249).

253 THE SCHOOL AND THE BLACK COMMUNITY. (3) (So 253).

254 BLACK FAMILIES IN WHITE AMERICA. (3)

261 SOCIAL PSYCHOLOGY. (2) (Ps 261, So 261).

262 SOCIAL DYNAMICS OF COMMUNICATION. (2) (Ps 262, So 262).

266 CRIME AND PERSONALITY. (3) (Cc 266, Ps 266).


272 GUIDING THE EMOTIONALLY DISTURBED CHILD. (2) Total programming for disturbed youngsters. Behavioral reports and legislation. Physical, psychological, and sociological causes.


274 MENTAL HYGIENE. (2) (Ps 274).

275 DYNAMIC PSYCHOLOGY. (2) (Ps 275).


277 ABNORMAL PSYCHOLOGY. (2-3) (Ps 277).

283 PRACTICUM IN PSYCHOLOGICAL TESTING. (2-3) (Ps 283).

284 WORKSHOP: CLASSROOM USE OF EDUCATIONAL TV. (2) (CA 284, Ed 612).

290 AUDIOVISUAL COMMUNICATION. (3) (Ca 290).

291 VISUAL COMMUNICATION DESIGN. (3) Prerequisite: Ed 290. Fee $15.00. (Ca 291).
359 FULL-DAY CHILD CARE METHODS. (3)
360 COMMUNICATION: SMALL GROUP DYNAMICS. (3) (CA 360).
365 CURRENT DIALOGUE—ISSUES AND SPEAKERS. (3) (CA 365).
370 COACHING WRESTLING. (2) Elective open to upper division students only.
371 COACHING TUMBLING AND GYMNASTICS. (2) Open to upper division students only.
372 COACHING FOOTBALL. (2)
373 COACHING BASKETBALL. (2)
374 COACHING BASEBALL. (1)
375 COACHING TRACK AND FIELD. (1)
376 THEORY OF OFFICIATING. (2) Elective open to upper division students only.
377 ADMINISTRATION OF PHYSICAL EDUCATION. (3) Principles, organization, and administration of physical education program. The intramural athletic program. FOR UNDERGRADUATE CREDIT ONLY.
378 ADMINISTRATION OF HEALTH EDUCATION. (3) Methods and materials. Organizational techniques and the administration of the school health program. FOR UNDERGRADUATE CREDIT ONLY.
381 TESTS AND EVALUATION IN PHYSICAL EDUCATION. (2)
382 ELEMENTARY SCHOOL HEALTH AND HYGIENE. (2)
383 COACHING WOMEN’S TEAM SPORTS. (2)
384 COACHING TENNIS. (2)
385 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. (2)
387 FIRST AID AND SAFETY. (2) The American Red Cross Standard and the Advanced First Aid course. The prevention and treatment of athletic injuries.
388 PERSONAL AND COMMUNITY HEALTH. (2) Personal and community health for use in teaching that subject.
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.
390 WORKSHOP: INTENSIVE PHONICS. (2)
391 WORKSHOP: MULTI-SENSORY PERCEPTION. (2) Other multi-sensory perception courses given during summer sessions under different titles. Materials fee $5.00.
392 PERCEPTUAL MOTOR PROBLEMS IN EDUCATION. (2)
393 ZOOS ARE CLASSROOMS. (1)
394 LOCAL RESOURCES FOR TEACHING LIFE SCIENCES. (2)
403 SUPERVISED STUDENT TEACHING AND SEMINAR. (9) Laboratory experience in secondary school teaching for one semester. Undergraduate credit only.
419 COPING WITH DEATH AND DYING. (2) (So 419) (HA 419)
420 HUMAN COMMUNICATION. (3)
421 LD / BD TUTORING. (2)
422 THE SACRAMENTS: HISTORY, THEOLOGY, PEDAGOGY. (3) (Th 422)
423 WORKSHOP: TEACHING THE GIFTED. (2)

424 THE HOLOCAUST. (2)
433, THEORIES OF PERSONALITY I, II. (2, 2) Two semesters. Prerequisites: 12 semester hours in psychology. (Ps 433, 434).
442 EDUCATING THE EXCEPTIONAL CHILD. (2-3) Current educational trends for gifted, mentally retarded, emotionally disturbed, speech-impaired, hearing impaired, visually handicapped, physically handicapped, and neurologically impaired children.
454 MONTESSORI METHODS AND MATERIALS I. (3)
455 MONTESSORI METHODS AND MATERIALS II. (3)
456 MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES: PRIMARY. (3)
457, MONTESSORI PRE-SCHOOL INTERNSHIP I, II. (3, 3) Two semesters.
458
460 UNIVERSITY OF CINCINNATI CONSORTIUM
461 MIAMI UNIVERSITY CONSORTIUM
462 ST. THOMAS INSTITUTE CONSORTIUM
463 EDGECLIFF COLLEGE CONSORTIUM
464 MT. ST. JOSEPH COLLEGE CONSORTIUM
465 THOMAS MORE COLLEGE CONSORTIUM
466 HEBREW UNION COLLEGE CONSORTIUM
467 ATHENAEUM CONSORTIUM
468 NORTHERN KENTUCKY STATE COLLEGE CONSORTIUM
470 BASIC AQUATICS. (1)
471 ADVANCED AQUATICS. (1)
472 LIFE SAVING. (2)
473 WATER SAFETY. (2)
474 COACHING RACQUET BALL, SQUASH, BADMINTON. (2)
476 COACHING SOCCER. (2)
480 SPECIAL WORKSHOPS, SEMINARS, INSTITUTES. (1-6) as designated. Courses will be specified as to title when offered.
481 READING AND STUDY SKILLS. (2)
482 GLASSER SEMINAR: REALITY THERAPY. (1)
487 LOCAL RESOURCES, FINE ARTS AND SOCIAL STUDIES. (2)
496 WORKSHOP: CHILDREN’S BOOKS. (2)
498 SPECIAL STUDY. (2-6) Credit to be arranged. Special reading and directed study for advanced students.

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.

501 PHILOSOPHY OF EDUCATION. (3) The historical development of educational philosophy and theories. Evaluation of major current philosophies.
503 ADVANCED EDUCATIONAL PSYCHOLOGY. (3) Major aspects of child and adolescent growth and development. The learning process and factors influencing learning.
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 applicable in the elementary, middle, and secondary school.

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.

510 STATISTICAL TECHNIQUES. (2-3) (Ps 210).

511 ADVANCED STATISTICS. (3) (Ps 511).

529 BEHAVIOR THERAPY. (3) (Ps 529).

530 LEARNING AND MOTIVATION. (2-3) (Ps 530).

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. (Ps 531).

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).

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).

534 ELEMENTARY SCHOOL GUIDANCE. (2) Principles, philosophy, administration, and organization of guidance services in the elementary school setting. Role and function of the counselor.

535 OCCUPATIONAL INFORMATION. (2) Sources of information about occupational fields and their utilization in counseling. Psychology of career choice. (Ps 535).

536 GROUP GUIDANCE. (2) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work. (Ps 536).

537 ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES. (2) Administrative guidance tasks.

539 GUIDANCE LABORATORY. (2) Study of individual pupils; collecting pertinent data, interviewing, recording, diagnosing, interagency collaboration. Practicum. Prerequisites: Ed 532, 533, 579. By reservation only.

540 FIELD EXPERIENCE IN GUIDANCE. (2) Supervised experiences in a school or agency setting. Practice in services. Fee: $15.00.

541 ELEMENTARY SCHOOL ADMINISTRATION. (2) Criteria for an effective elementary school organization. Patterns of school organization. Administrative problems.


543 SUPERVISION OF INSTRUCTION. (2) Techniques of improving instruction through supervision.

544 ELEMENTARY CURRICULUM. (2) Aims of elementary education. Specific objectives of primary and upper-elementary divisions. Classroom techniques for realizing these objectives.

545 SECONDARY CURRICULUM. (2) Aims of secondary education. Specific objectives of curricular areas. Classroom techniques for realizing these objectives.

547 CURRENT PROBLEMS OF ELEMENTARY EDUCATION. (1-2) A seminar.

548 CURRENT PROBLEMS OF SECONDARY EDUCATION. (1-2) A seminar.

549 PROFESSIONAL NEGOTIATIONS IN EDUCATION. (2)

560 PUPIL PERSONNEL ACCOUNTING AND RECORDS MANAGEMENT. (2-3)
Education

604 INDIVIDUALLY GUIDED INSTRUCTION. (2)
605 ALTERNATIVES IN EDUCATION. (2)
607 EDUCATIONAL PROJECT MANAGEMENT. (2)
608 GATB TRAINING. (1) Fee: $25.00.
609 RESOURCES COORDINATION LABORATORY IN GUIDANCE. (2) Materials fee $6.00.
613 READING: MASTERY LEARNING. (2)
614 WORKSHOP: CLASSROOM USE OF EDUCATIONAL TELEVISION. (2) (CA 284).
615 WORKSHOP: GROUP DYNAMICS. (2) Materials fee $10.00.
616 INDIVIDUALIZED INSTRUCTION. (2) Fee $5.00.
618 GROUP TESTING: THEORY AND PRACTICE. (2) Fee: $10.00.
619 TRANSACTIONAL ANALYSIS MANAGEMENT. (3) (MG 619)
620 ALCOHOL EDUCATION. (2)
621 WORKSHOP: SPECIAL EDUCATION. (2)
622 WORKSHOP: COACHING BASKETBALL. (2)
623 WORKSHOP: OUTDOOR EDUCATION. (2)
624 WORKSHOP: COACHING FOOTBALL. (2)
625 WORKSHOP: CURRICULUM DEVELOPMENT IN CAREER EDUCATION. (2)
626 ADVANCED OUTDOOR EDUCATION. (2)
630. ISSUES: SCHOOL COUNSELORS I, II. (2 or 3, 2 or 3)
631 INTRODUCTION TO REALITY THERAPY. (2)
634 DRUG COUNSELING. (2) (Ed 340).
635 GUIDANCE AND DISCIPLINE. (2) Approaches to discipline. Discipline and punishment.
Current theories concerning discipline are reviewed that are helpful to teachers, coun-
selors, and administrators.
636 CAREER EDUCATION: K-12. (2) Also given as Career Development Workshop. Career
development models. Techniques useful to teachers, counselors, and administrators.
Community resources.
637 GUIDANCE INFORMATION FOR HIGHER EDUCATION. (2)
638 WORKSHOP: LEARNING DISABILITIES. (2)
639 SURVEY: LEARNING DISABILITIES. (2) The learning disabled (neurologically Impaired)
640 LEARNING DISABILITIES: METHODS AND MATERIALS. (2) Instructional models with
641 COUNSELING PARENTS OF EXCEPTIONAL CHILDREN. (2) Prerequisite: Ed 639.
642 LEARNING DISABILITIES: INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE
TEACHING. (2) Assessment tools and techniques. Remedial approaches. Prerequisite:
Ed 639. Materials Fee: $5.00.
643 SEMINAR: INDUSTRIAL PSYCHOLOGY. (2) Readings, student-led discussions, written
and critical reviewing of literature in industrial psychology. (Ps 643, BA 643).
644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS. (3) (Ps 644, BA 644).
645 ADVANCED DEVELOPMENTAL PSYCHOLOGY. (3) Additional time beyond class period
must be arranged weekly with the professor. (Ps 645).

Psychology

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).
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).
648 PRACTICUM: LEARNING DISABILITIES / BEHAVIOR DISORDERS. (2-3) 60-90 clock
hours of work experience with emotionally disturbed children, under supervision. (Ps 648).
651 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH, (3) Seminar. Philosophy,
historical development, contemporary critique, and current methodology. Classroom ob-
ervation. Varieties of resources.
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).
653 EARLY COGNITIVE DEVELOPMENT. (3) Research findings related to childhood educa-
tion. Principles of Montessori education: early enriched environment, critical periods for
learning, and the role of the early activation drive. Play theory, beauty, creativity, and
self-esteem. (Ps 653).
654 MONTESSORI METHODS AND MATERIALS I. (3) Daily living activities. Prepared envi-
enment. Sensitive periods. Creative materials. Introduction of learning on the sensory
level. Requires time for materials familiarization in addition to class time.
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.
656 CURRICULUM DESIGN AND TEACHING STRATEGIES: PRIMARY GRADES. (3) De-
scription same as Ed 660 with emphasis on the primary grades.
657, 658 MONTESSORI INTERNSHIP I, II. (3,3) Two semesters.
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, prac-
tices, values, roles, goals. Evaluation.
661 CURRICULUM DESIGN AND TEACHING STRATEGIES: ELEMENTARY. (3) Descrip-
tion same as 660 except limited to elementary teachers.
662 CURRICULUM DESIGN: PRACTICUM. (3-6) Instructional systems' concepts in school
situation. Identification data. Problems analysis. Revision of plans. Evaluation. Prerequis-
ite: Ed 660 or 661.
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.
665 INSTRUCTIONAL TECHNOLOGY. (3) Instructional management functions. Instructional
development functions. Instructional system components.
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.
673 PRACTICUM: SCHOOL SOCIAL WORK. (2-4)
668 INTERNSHIP: SCHOOL SOCIAL WORK. (6)
669 PRACTICUM: PERSONNEL TRAINING AND DEVELOPMENT. (6) One hundred and
eighty hours of supervised in-office experience in the field of personnel training and
development. Fee: $200.00. (BA 699).

667 PRACTICUM: SCHOOL SOCIAL WORK. (2-4)

686 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.
677 PRACTICUM: SCHOOL SOCIAL WORK. (2-4)
678 INTERNSHOP: SCHOOL SOCIAL WORK. (6)
679 PRACTICUM: PERSONNEL TRAINING AND DEVELOPMENT. (6) One hundred and
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**Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>679</td>
<td>PRACTICUM IN READING. (3) Supervised practice in remedial and developmental reading. Laboratory fee $15.00. Prerequisite: Ed 678.</td>
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<tr>
<td>681</td>
<td>STUDENT DEVELOPMENT SERVICES IN HIGHER EDUCATION. (2) Tutorial only. Approval of department chairman.</td>
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<tr>
<td>671</td>
<td>READING IN THE CONTENT AREAS. (2) Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary content reading.</td>
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<tr>
<td>672</td>
<td>NEW THEORIES IN TEACHING READING. (2) Sociological, psychological, and educational analysis of new trends. Objectives, curriculum planning, organizational plans, and instructional materials. Inter-relationship of general reading skills and content-reading study skills.</td>
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<tr>
<td>673</td>
<td>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.</td>
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<tr>
<td>682</td>
<td>PRACTICUM: STUDENT DEVELOPMENT SERVICES. (2) Prerequisite: Ed 681.</td>
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<tr>
<td>683</td>
<td>ADULT LEARNING. (3) Needs and characteristics of adult learner. Preferred learning style, personal experiences, human resources, change.</td>
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<tr>
<td>687</td>
<td>RESEARCH: HISTORY AND PHILOSOPHY OF EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<tr>
<td>689</td>
<td>RESEARCH: ADMINISTRATION. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<td>690</td>
<td>RESEARCH: SECONDARY EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<td>691</td>
<td>RESEARCH: ELEMENTARY EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<td>692</td>
<td>RESEARCH: GUIDANCE. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<tr>
<td>693</td>
<td>RESEARCH: READING. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<tr>
<td>694</td>
<td>RESEARCH: PSYCHOLOGY. (1-2) Individual research. Prerequisite: Ed 507.</td>
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<tr>
<td>695</td>
<td>RESEARCH: SPECIAL AREA. (1-2) Individual research in any special area to be specified. Prerequisite: Ed 507.</td>
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<tr>
<td>697</td>
<td>TUTORIAL STUDY. (2-6) Credit by arrangement.</td>
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<tr>
<td>698</td>
<td>SPECIAL STUDY. (2-3) Credit to be arranged. Special reading and directed study for advanced students.</td>
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<tr>
<td>699</td>
<td>MASTER'S THESIS. (6) For students desiring a program leading to the degree of Master of Arts.</td>
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<tr>
<td>700</td>
<td>ADMINISTERING THE SCHOOL READING PROGRAM. (1-3)</td>
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<tr>
<td>703</td>
<td>SCIENCE: PATTERNS OF THINKING. (1)</td>
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<td>704</td>
<td>WORKSHOP: PEER-LEAD PROGRAMS</td>
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<tr>
<td>707</td>
<td>WORKSHOP: ADMINISTERING CATHOLIC SCHOOLS. (2)</td>
</tr>
<tr>
<td>708</td>
<td>SCHOOL DESEGREGATION. (2)</td>
</tr>
</tbody>
</table>

**English (En)**

Staff: DR. FONTANA, chairman; FR. BRENNAN, FR. CONNOLLY, DR. GETZ, MR. GLENN, MR. KVAPIL, FR. TRAUB, DR. WENTERSDORF, MR. WESSLING

Assisted by: MR. BOLTON, MR. CAHILL, MS. JOHNSON, DR. JONES, MR. KIRLEY, DR. MURRAY, DR. SCHWEIKERT, MR. SANDMAN, MRS. SPILLER.

(*) Courses so designated are approved as electives for curricular requirements in areas of humanities, subject to limitations as indicated.

**Lower Division Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>ENGLISH COMPOSITION. (3) Instruction in grammar, usage, diction, organization, and style. Frequent short writing assignments are required.</td>
</tr>
<tr>
<td>102</td>
<td>STUDIES IN POETRY. (3)</td>
</tr>
<tr>
<td>103</td>
<td>STUDIES IN DRAMA. (3)</td>
</tr>
<tr>
<td>104</td>
<td>STUDIES IN FICTION. (3)</td>
</tr>
<tr>
<td>105</td>
<td>STUDIES IN SATIRE. (3)</td>
</tr>
<tr>
<td>106</td>
<td>INTRODUCTION TO LITERATURE. (3)</td>
</tr>
<tr>
<td>107</td>
<td>STUDIES IN AFRO-AMERICAN LITERATURE. (3) Not open to students who have taken or expect to take En 388 or En 389.</td>
</tr>
<tr>
<td>108</td>
<td>STUDIES IN SHAKESPEARE. (3)</td>
</tr>
</tbody>
</table>

**Upper Division Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>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).</td>
</tr>
<tr>
<td>203</td>
<td>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.</td>
</tr>
<tr>
<td>206</td>
<td>LINGUISTICS. (3) Contemporary theory concerning the nature and origin of language. Phonology, morphology, syntax, and cultural linguistics. (Ed 206).</td>
</tr>
<tr>
<td>207</td>
<td>ADVANCED WRITING. (3)</td>
</tr>
<tr>
<td>209</td>
<td>CREATIVE WRITING. (3)</td>
</tr>
<tr>
<td>210</td>
<td>CONTEMPORARY PROSE COMPOSITION. (3)</td>
</tr>
<tr>
<td>214</td>
<td>TECHNICAL WRITING. (3) Report, research, grant, and brochure writing.</td>
</tr>
<tr>
<td>241</td>
<td>GREEK LITERATURE IN TRANSLATION. (3) (CI 241).</td>
</tr>
<tr>
<td>244</td>
<td>LATIN LITERATURE IN TRANSLATION. (3) (CI 244).</td>
</tr>
<tr>
<td>250</td>
<td>WORLD DRAMA. (3)</td>
</tr>
<tr>
<td>253</td>
<td>MODERN WORLD LITERATURE. (3) Modern poetry and fiction in translation and in English. Literature of emerging nations.</td>
</tr>
<tr>
<td>255</td>
<td>THE COMIC SPIRIT IN WORLD LITERATURE. (3) Dramatic comedy from various world literatures. Reading in theory of comedy.</td>
</tr>
</tbody>
</table>
English

268 LITERATURE AND THE PERSON. (3) English and Continental literature of several
genres through the psychological theories of several contemporary humanistic
psychologists.

269 MYTH IN WORLD LITERATURE. (3)

280 BRITISH DRAMA TO 1900. (3)

281 BELIEF AND NON-BELIEF IN MODERN LITERATURE. (3) The crisis of faith as ex­
pressed in significant works of modern literature, philosophy, and theology. (Th 281).

286 AUTOBIOGRAPHY AND DISCOVERY. (3) The process of self-composition and identity
through story and narrative. (Th 286).

290 THE HERO IN LITERATURE. (3) The changing image of the hero in western literature from
Beowulf to Bellows Herzog.

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 293).

300 THE BRITISH LITERARY EXPERIENCE. (3) The historical study of British literature
through representative texts. Required of English majors.

303 THE AMERICAN LITERARY EXPERIENCE. (3) The historical study of American literature
through representative texts. Required of English majors.

308 MEDIEVAL LITERATURE. (3)

310 CHAUCER: THE CANTERBURY TALES. (3)

326 SHAKESPEARE: HISTORIES AND COMEDIES. (3)

327 SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES. (3)

330 SEVENTEENTH CENTURY LITERATURE. (3) The poetry and prose of the 17th century
from Donne to Milton.

341 THE AGE OF EXPERIENCE. (3) Poetry, drama, and fiction of the late 17th and 18th
century: Dryden, Pope, Swift, Defoe, Sterne.

350 ROMANTIC LITERATURE. (3) English romantic poetry and selected non-fiction prose
from 1790 to 1830.

360 VICTORIAN LITERATURE TO 1860. (3) Poetry, non-fictional prose, and the novel. The
relationship of literature to social change.


370 MODERN BRITISH LITERATURE. (3) Twentieth century British poetry, fiction, and drama.
Student should have some background in the analysis of poetry.

372 MODERN DRAMA. (3) British, American, and European drama from Ibsen to Brecht.

373 CONTEMPORARY DRAMA. (3) British, American, and European drama of the post-war
period.

380 AMERICAN FICTION TO 1920. (3)

385 MODERN AMERICAN FICTION. (3)

386 CONTEMPORARY AMERICAN FICTION. (3)

388 AFRO-AMERICAN LITERATURE. (3) Not open to students who have completed En 128.

390 AMERICAN POETRY FROM WHITMAN TO STEVENS. (3) Background in analysis of
poetry is assumed.

393 CONTEMPORARY AMERICAN POETRY. (3) The poetry of Lowell, Berryman, Jarrell,
Plath, Sexton, Merrill, and others.

395 CANADIAN LITERATURE. (3) The study of Canadian writing in English from Haliburton to
Margaret Atwood. Emphasis on recent Canadian writing.

398 INTERNSHIP: SPECIAL STUDIES. (3)

399 SPECIAL STUDY. Credit by arrangement. Directed study.

Graduate Courses

503 HISTORICAL LINGUISTICS. (3) Origins and development of the English language from
c. 450 to the present.

510 CHAUCER'S MAJOR WORKS. (3)

527 SHAKESPEARE'S MAJOR PLAYS. (3)

530 STUDIES IN SEVENTEENTH CENTURY LITERATURE. (3)

550 STUDIES IN ROMANTICISM. (3)

554 ROMANTICISM AND THE ABSURD. (3)

560 STUDIES IN VICTORIAN AUTHORS. (3)

566 THE ENGLISH NOVEL FROM AUSTEN TO LAWRENCE. (3)

570 STUDIES IN MODERN BRITISH LITERATURE. (3)

572 MODERN DRAMA. (3)

575 THE LITERATURE OF TRAVEL AND EXPLORATION. (3)

580 BRITISH DRAMA TO 1900. (3)

584 AMERICAN FICTION TO 1920. (3)

585 MODERN AMERICAN FICTION. (3)

586 CONTEMPORARY AMERICAN FICTION. (3)

590 AMERICAN POETRY FROM WHITMAN TO STEVENS. (3)

593 CONTEMPORARY AMERICAN POETRY. (3)

596 WOMEN AUTHORS. (3) British and American women writers with an emphasis on the
twentieth century.

699 MASTER'S THESIS. (6)

Theatre (TR)

231 HISTORY OF THE THEATRE. (3) Theatrical practice in the Western world from ancient
Greece to the present.

232 ACTING TECHNIQUES. (3) Pantomime, improvisation, coordinating speech and move­
ment, tempo rhythm and line reading.

233 PLAY DIRECTING. (3) Basic directing. Interpreting a play in oral and visible form.

240 ADVANCED ACTING. (3) Styles of acting. Creating different kinds of roles and characterI­
zation. Pre-requisite, TR 232, or approval of Instructor.

331 STUDIES IN MUSICAL COMEDY. (3) Origins and current styles of American musical
comedy.

390-3 THEATRE WORKSHOP. (3) Intensive, directed participation In some aspect of a theatrical
production. Required of and restricted to English-Theatre majors.
Fine Arts (FA)

Staff: BR. PRYOR, MR. SORIANO

The Department of Fine Arts is administered by the Dean of the College of Arts and Sciences.

(*) Courses so designated are approved as electives for curricular requirements in humanities subject to limitations as indicated.

Lower Division Courses

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

*103 FIGURE DRAWING. (3) Studio drawing from the live model using examples from history to define and inspire the students' solutions.

*105 FIGURE PAINTING. (3) Studio painting from the live model. Slide-illustrated lectures and visits to the museums. Utilizes art history examples.

*107 DESIGN PROBLEMS. (3) Studio art class. The students' work as an aid to understanding the elements and principles of art. Presented in an art history context.

*109 LANGUAGE OF COLOR AND DESIGN. (3) Basic design problems. The basic relationships between the elements of visual art and the principles which condition their use.

Upper Division Courses

*201 HISTORY OF ART I. (3) Prehistoric times to the Renaissance period. Principles and elements of visual organization are emphasized.

*202 HISTORY OF ART II. (3) The Reformation to the present time. Aesthetic appreciation is emphasized. Painting, sculpture and architecture are included.

*213 MEDIA AESTHETICS. (3) Appreciation of the motion-picture and television media, through analytical examination of the elements and principles of each. (CA 213).

*220 LANGUAGE OF ART. (3) Appreciation of the visual arts. Aesthetic analysis of elements and principles. Symbol patterns that recur in world art.

*221 CLASSICAL HUMANITIES. (3) Greek literature, philosophy and art on a comparative basis. Sources and influences from Egypt, Crete and Mesopotamia.

*222 INTRODUCTION TO VISUAL CONCEPTS. (3) Knowledge and understanding of the integrity of art in human life. Man's relationship to his whole environment. Design.

*223 HISTORY OF THE FINE ARTS I. (3) The inter-relationships of art, music, literature and history, and aesthetic appreciation. Prehistoric times to the Renaissance.

*224 HISTORY OF THE FINE ARTS II. (3) Music, art and literature in relation to history. The Reformation to the present.

*225 THE CLASSICAL JOURNEY. (3) Film, art, music and literature which has been influenced either in subject matter or structure, or both, by ancient Greece and Rome.

*226 THE SOUTHERN MYTH. (3) The Southern myth using films such as Birth of a Nation, Gone With the Wind, A Streetcar Named Desire and Duel in the Sun. The art, music and literature of the Southern states.

*227 ROMANTICISM IN THE ARTS. (3) The Romantic movement as seen in music, art, and literature. Films such as Wuthering Heights, Gone To Earth, Jane Eyre.

*251 HISTORY AND LITERATURE OF MUSIC I. (3) Ancient times to the Baroque period, illustrating and describing musical forms and principles.


*254 LANGUAGE OF MUSIC. (3) Elements and principles of music. Forms and instruments are compared. Musical examples. The symphony, sonata, opera, art song.

*395 DIRECTED STUDY. Credit by arrangement.
**History**

**Geography (Gg)**

**Staff:** MR. WILLIAMS

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.

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

### Upper Division Courses

207 **WORLD GEOGRAPHY.** (3) Physical and cultural regions of the world. Human systems, patterns, and diffusions. Man-environmental relationships.

220 ** GEOGRAPHY OF EUROPE.** (3)

260 **GEOGRAPHY OF LATIN AMERICA.** (2-3) Topical and regional. Location patterns and regional development.

261 **GEOGRAPHY OF SOUTHEAST ASIA.** (3) Political, economic and social. The People: ethnic background, human activity, population number and distribution.

375 **POLITICAL GEOGRAPHY.** (3) (Po 375).

395 **DIRECTED STUDY.** Credit to be arranged.

### History

**Staff:** DR. SIMON, chairman; FR. BENNISH, DR. FORTIN, DR. GOODMAN, DR. GRUBER, FR. LAROCCA, MR. MOY, DR. MOULTON, MR. SEHER

**Assisted by:** DR. PATTON, MR. SEHER

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

#### Lower Division Courses

133 **WESTERN CIVILIZATION I.** (3)

134 **WESTERN CIVILIZATION II.** (3)


141 **IDEAS AND INSTITUTIONS I.** (3) The evolution of Western ideas and prevailing assumptions and their relations to the institutions which regulate societies. The ancient Near East to the scientific revolution.

142 **IDEAS AND INSTITUTIONS II.** (3) A continuation of Hs 141, from the scientific revolution to the present.

145 **ATLANTIC CIVILIZATION I.** (3) The development of Europe and America, emphasizing their relationship to one another. The Age of Columbus to the Age of Napoleon.

146 **ATLANTIC CIVILIZATION II.** (3) A continuation of Hs 145, from the industrial revolution to the present.


158 **CITIES AND THE WESTERN WORLD II.** (3) A continuation of Hs 157.

### Upper Division Courses

200 **THE SOCIOLOGY OF MAX WEBER.** (3) (Po 200, So 200).

202 **HISTORY OF ANCIENT GREECE.** (3) (Gk 202, Cl 202).

206 **HISTORY OF ANCIENT ROME.** (3) (Lt 206, Cl 206).

211 **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.

212 **KINGS, KNIGHTS, PARLIAMENT AND WARS.** (3) The growth of political stability, representative bodies, and modern states in Europe, XII to the XVI century.


220 **EUROPE, SEVENTEENTH CENTURY.** (3) The culture and politics of the Century of Expansion.

221 **EUROPE, EIGHTEENTH CENTURY.** (3)

222 **REVOLUTIONARY EUROPE, 1763-1848.** (3)

224 **MIDDLE EAST TODAY.** (3) (Po 224).

225 **EUROPE, 1848-1918.** (3)

226 **EUROPE SINCE 1918.** (3)

228 **MODERN FRANCE.** (3) France since the Enlightenment, with attention to its unique role in Western society.

230 **MODERN GERMANY.** (3) (Po 230).

231 **NAZI GERMANY.** (3) (Po 231).

232 **HISTORY OF SPAIN AND PORTUGAL.** (3) From earliest times to present. Their roles as the parent nations of Latin America.

233 **HISTORY OF POLITICAL THEORY.** (3) (Po 233).

234 **NINETEENTH CENTURY RUSSIA.** (3) Impact of French Revolution and Napoleonic wars. Decembrist uprising. Socio-economic and cultural developments in Imperial Russia.

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).


238 **TWENTIETH CENTURY EASTERN EUROPE.** (3) Cultural and political developments since 1900. (Po 238).

240 **HENRY VIII, HIS WIVES AND OFFSPRINGS.** (3) The political, social, and religious life in England during the English Renaissance.

241 **OLIVER CROMWELL IS DEAD.** (3) The background, the course of, and the aftermath of the English Civil War.

242 **ENGLAND SINCE 1867.** (3) (Po 242).

243 **MODERN IRELAND.** (3)
Graduate Courses

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.

524 SEMINAR: THE MIDDLE EAST TODAY. (3) (Po 524).

525 SEMINAR: EUROPE. (3) Research in the history of Western Europe or of Great Britain.

526 SEMINAR: MODERN BRITAIN AND EUROPE. (3)

527 SEMINAR: THE EXPANSION OF EUROPE. (3)

528 SEMINAR: TWENTIETH CENTURY EASTERN EUROPE. (3)

546 SEMINAR: AMERICAN GOVERNMENT. (3) (Po 546).

549 SEMINAR: INTERNATIONAL ORGANIZATIONS. (3) (Po 549).

551 SEMINAR: COLONIAL LATIN AMERICA. (3) (Po 551).

552 SEMINAR: CONTEMPORARY LATIN AMERICA. (3) (Po 552).

572 SEMINAR: SOUTHEAST ASIA TO WORLD WAR II. (3) (Po 572).

573 SEMINAR: SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Po 573).

576 SEMINAR: INDIA TO 1857. (3) (Po 576).

577 SEMINAR: INDIA SINCE 1857 AND PAKISTAN. (3) (Po 577).

583 SEMINAR: JAPAN TO 1868. (3) (Po 583).

584 SEMINAR: JAPAN SINCE 1868. (3) (Po 584).

585 SEMINAR: CHINA TO 1644. (3) (Po 585).

586 SEMINAR: CHINA SINCE 1644. (3) (Po 586).

Mathematics (Mt)

Staff: DR. LARKIN, chairman; MS. BROERING, MR. BRUGGEMAN, DR. COLLINS, DR. DELANEY, DR. FLASPOHLER, FR. ISENECKER, MR. PULSKAMP, MR. TRUNNELL

Assisted by: DR. BUTEN, MR. CHARRIER, MR. DEVANNEY, DR. DOHERTY, DR. HERBOLD, DR. KLEE, MR. KLOECKER, MS. PERRI

(*) Courses so designated are approved as electives for curricular requirements in mathematics, subject to limitations as indicated.

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.

Descriptions of mathematics courses in Computer Science are found in the Computer Science section.

105 FUNDAMENTALS OF MATHEMATICS. (3) Basic geometry, fractions, arithmetic and algebra of one variable, exponents, square roots, factoring quadratic expressions, distributive law, simple equations, graphing, arithmetic of decimals and rational numbers, percent problems.

108 MATHEMATICS FOR RADIOLOGY. (3) Topics in mathematics useful to students studying to become x-ray technologists.


125 INTRODUCTION TO COMPUTING. (2) (CS 125).


135 NUMERICAL CALCULUS. (1) (CS 135).

*140 GENERAL MATHEMATICS. (3) Flow charts and elementary operations, rational numbers, plane geometry, linear polynomials and equations, the computer, nonlinear relationships, solid geometry.

*143 MATHEMATICS OF FINANCE. (3) Selecting the optimum investment plan from competing alternatives. Personal and business decision-making. Time value analysis applied to stocks, bonds, insurance.
Mathematics

**146** ELEMENTARY STATISTICS. (3) Description of sample data, simple probability, theoretical distributions, normal and binomial estimation, tests of hypotheses, correlation, and regression.

**149** ELEMENTARY FUNCTIONS. (3) Coordinates, functions, lines, planes, systems of equations, exponents, solution of quadratics, factoring, exponential and logarithmic functions, inequalities, conics, interest, binomial theorem, matrices.

**150** ELEMENTS OF CALCULUS I. (3) Absolute values, slope of line, equation of lines, limits, slope of curve, derivative, differentiation techniques, chain rule, curve sketching, max-min applications, definite and indefinite integral, techniques, substitution, tables, exponential and logarithmic functions. Prerequisite: Mt 149 or equivalent.

**151** ELEMENTS OF CALCULUS II. (3) Functions of several variables, level curves, partial derivatives, geometric interpretation, rate of change, max-min several variables, limits, methods of integration, differential equations. Prerequisite: Mt 149 or equivalent.

**160** VECTORS AND GEOMETRY. (3) Lines and planes, conics, quadrics, Cartesian, polar, cylindrical and spherical coordinates, systems of linear equations, determinants, matrices, matrix algebra, characteristic values and vectors.

**170** CALCULUS I. (3) Rate of change of a function, derivatives of algebraic functions, curve plotting, max-min problems, integration.

**171** CALCULUS II. (3) Applications of integration, transcendental functions, methods of integration, elementary mechanics of series introduction to differential equations. Prerequisite: Mt 170.

**197** TUTORIAL STUDY. Credit by arrangement.

Upper Division Courses

**201** MATHEMATICAL STATISTICS I. (3) Probability, probability distributions (discrete, continuous, univariate, multivariate), characteristics of distributions, sampling, estimation. Prerequisite: Mt 220.

**210** INTRODUCTION TO INFINITE SERIES. (2-3) Limit of sequence and series of real numbers, comparison, ratio and root tests, sequences and series of functions, L'Hospital's Rule, power series. Prerequisite: Mt 171.

**211** MATHEMATICAL STATISTICS II. (3) Hypothesis testing, confidence methods, regression analysis, factorial designs, experimental design, sampling inspection, non-parametric methods. Prerequisite: Mt 201.

**215** DIFFERENTIAL EQUATIONS. (2-3) First and higher order differential equations, series solutions, applications. Prerequisite: Mt 171.

**220** ADVANCED CALCULUS I. (3) Functions of several variables, partial differentiation, exact differentials, vector calculus. Implicit functions, composite functions, chain rule, Mean Value Theorems, Jacobians. Prerequisites: Mt 180, 171.

**230** ADVANCED CALCULUS II. (2-3) Multiple integrals, change of variable, line and surface integrals, divergence and curl, Divergence, Green's and Stokes theorems. Prerequisite: Mt 220.

**232** TOPICS IN APPLICATIONS OF ELEMENTARY MATHEMATICS. (3) Credit may be applied toward M.Ed degree only.

**233** TOPICS IN GEOMETRY. (3) Credit may be applied toward M.Ed degree only.

**234** TOPICS IN COMPUTER MATHEMATICS. (3) Credit may be applied toward M.Ed degree only.

**235** TOPICS IN COMPUTERS AND LANGUAGES. (3) Credit may be applied toward M.Ed degree only.

**236** TOPICS IN CALCULUS. (3) The rate of change of a function, derivatives of algebraic functions, integration. Credit may be applied only toward M.Ed degree.

**237** TOPICS IN LOGIC. (3) Credit may be applied only toward M.Ed degree.

**238** TOPICS IN STATISTICS. (3) Credit may be applied only toward M.Ed degree.

**239** TOPICS IN MODERN ALGEBRA. (3) Credit may be applied only toward M.Ed degree.

Military Science

**240** LINEAR ALGEBRA. (3) Algebra of matrices, determinants, inverses, groups of transformations, vector spaces, linear and bilinear mappings, eigenvalues. Prerequisite: Mt 160.

**250** INTRODUCTION TO MODERN ALGEBRA. (3) Groups, isomorphism, homomorphism, rings, ideals, fields, linear congruences, real numbers.

**280** ELEMENTARY TOPOLOGY. (3) Topology of metric spaces, limits, continuity, compactness, and connectedness. Prerequisite: Mt 220.

**270** INTERMEDIATE ANALYSIS. (3) Elements of set theory, numerical sequences and series, continuity, differentiation. Sequences and series of functions, and Riemann-Stieltjes integral. Prerequisite: Mt 210, 260.

**280** COMPLEX VARIABLES I. (3) Complex numbers, sequences and series of numbers and functions, analytic functions. Cauchy integral theorem, power series, residues. Prerequisite: Mt 230.

**303** NUMERICAL ANALYSIS I. (3) Mathematical problem solving on digital computers. Interpolation, error analysis, numerical differentiation and integration, approximation of functions by polynomials. Prerequisite: Mt 220 and Programming.

**310** PROJECTIVE GEOMETRY. (3)

**314** ADVANCED ORDINARY DIFFERENTIAL EQUATIONS I. (3) Existence and uniqueness, phase-plane concepts, elementary critical points and stability theory, second order linear equations with variable coefficients.

**320** MATHEMATICAL LOGIC. (3) Model and proof theoretic investigation of the propositional and predicate calculi. Paradoxes, formal systems, Godel's theorems.

**330** THEORY OF NUMBERS. (3)

**342** LINEAR PROGRAMMING. (3) The assignment problem, transportation problem, the simplex method, quality. Emphasis is on computer methods. Prerequisites: Mt 220.

**344** VECTOR AND TENSOR ANALYSIS I. (3) Fundamental operations, differentiation and integration of tensor fields, integral theorems, tensors in Cartesian orthogonal coordinates. Prerequisites: Mt 230, 240.

**350** FOUNDATIONS OF MATHEMATICS. (3)

**354** CALCULUS OF VARIATIONS. (3) Necessary and sufficient conditions for an extremum, the Euler equations, variational problems with movable boundaries, constrained extrema and Hamilton's principle. Prerequisite: Mt 230.

**360** MEASURE THEORY AND INTEGRATION. (3) Linear spaces, additive classes and Borel sets, outer measures. Lebesgue-Stieltjes Measure, measurable functions, integration, convergence theorems, differentiation.

**397** SPECIAL READING AND STUDY FOR ADVANCED STUDENTS. Credit by arrangement.

Military Science (MS)
The Reserve Officers' Training Corps

Staff: LTC. FINGER, chairman; CPT. OREGNE
Assisted by: SGM STEWARD, SFC COTTRELL

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 the 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 years). A military obligation is incurred by enrollment and completion of the upper division (advanced) courses.
Military Science

The advanced courses qualify students for 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. Advanced placement for these basic courses will be determined by the Chairman of the Military Science Department. 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 Advance 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 the two years.

ROTC students, upon graduation and commissioning, will be obliged to satisfy a service agreement which may be (1) three years active duty service followed by three years in the inactive reserves; or (2) three to six months active duty for training followed by 3½ years in the active reserve program, and two years in the inactive reserves.

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 unspecified electives. Military Skills Training is a required portion of the curriculum.

Lower Division Courses

103 LEADERSHIP. (1) Case studies of leadership techniques and problem solving. Military Skills Training.

Upper Division Courses

201 BASIC MILITARY TACTICS. (3) Squad tactics, map reading and methods of instruction. Military Skills Training.
202 ADVANCED MILITARY TACTICS. (3) Small unit tactics, advanced tactics, and career development. Military Skills Training.
203 THE MILITARY TEAM. (2) The military team, staff functions, and military law. Military Skills Training.
204 PROFESSIONAL DEVELOPMENT. (2) Company Administration, logistics, and management. Preparation for active duty. Military Skills Training.
290 SPECIAL INSTRUCTION. Credit to be arranged.

Modern Languages

Staff: DR. VEGA, chairman; DR. BUGOS, MR. EICK, FR. KENNEALY, MR. RIESELMAN
Assisted by: MR. CASSINI, MR. CHAVES, MR. COATES, MR. HOLMAN, DR. MIYAR, DR. SCHURR, FR. TRUMMER

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.

(*) Courses so designated are approved as electives for curricular requirements in the humanities.

English As A Second Language (ESL)

In preparation for admission into degree programs in U. S. colleges and universities, the Department offers semester and eight-week non-credit courses of intensive English designed for students whose native language is not English. These students take twenty hours per week of grammar, pronunciation, conversation, civilization and literature.

German (Gr)

Lower Division Courses

111 ELEMENTARY GERMAN I. (3) The basic skills.
112 ELEMENTARY GERMAN II. (3) Further development of basic skills. Prerequisite: Gr 111.
121 INTERMEDIATE GERMAN I. (3) Review of grammar. Reading and conversation. Prerequisite: Gr 112.
122 INTERMEDIATE GERMAN II. (3) A continuation of Gr 112. Increased reading and cultural materials. Prerequisite: Gr 121.

Upper Division Courses

Prerequisite: Gr 121 or the equivalent. The student should take any two of the following before enrolling in other upper division courses: Gr 200, 201, 202, 203, 204.
200 ADVANCED GERMAN. (3)
201 ADVANCED READINGS IN GERMAN. (3) Literary and non-literary texts.
202 ADVANCED CONVERSATION. (3)
203 ADVANCED COMPOSITION. (3)
204 INTRODUCTION TO GERMAN LITERATURE. (3) A chronological presentation based on genres and movements. Analyses of excerpts from representative authors.
220 GERMAN CIVILIZATION. (3) German history, politics, philosophy, literature and art from the middle of the Eighteenth century to the present.
222 THE GERMAN SHORT STORY. (3) Thomas Mann, Heinrich Mann, Rilke and Schnitzler.
260 THE CLASSICAL PERIOD. (3) "Sturm und Drang"; Goethe and Schiller.
261 GERMAN ROMANTICISM. (3) Novalis, Eichendorff, Brentano, Tieck and others.
265 THE GERMAN NOVEL IN THE NINETEENTH CENTURY. (3) Keller, Storm, Raabe and Fontane.
273 CONTEMPORARY GERMAN LITERATURE. (3) Grass, Boell, Johnson, Walser, Hildesheimer, Seghers and others.
Modern Languages

'294 SELECTED READINGS. Credits by arrangement.

325 TEACHING MODERN LANGUAGE. (3) (Ed 325)

'343 HESSE IN TRANSLATION. (3)

'345 KAFKA IN TRANSLATION. (3)

'346 FAUST IN TRANSLATION. (3) A study of Goethe's Faust and the Faustian motif through the ages.

'347 CONTEMPORARY LITERATURE IN TRANSLATION. (3)

'395 DIRECTED STUDY. (3) Credits by arrangement.

French (Fr)

For students majoring in French. French 200 and 234 or 235 and 240 and 241 are required as an introduction to all French upper division courses beginning at the 244-level. For non-majors, the same sequence is strongly recommended.

Lower Division Courses

111 ELEMENTARY FRENCH I. (3)

112 ELEMENTARY FRENCH II. (3) Prerequisite: Fr 111.

121 INTERMEDIATE FRENCH I. (3) Prerequisite: Fr 112.

122 INTERMEDIATE FRENCH II. (3) Prerequisite: Fr 121.

Upper Division Courses

*200 ADVANCED FRENCH. (3)

*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.

*235 FRENCH CULTURE AND CIVILIZATION. (3)

*240 SURVEY OF FRENCH LITERATURE I. (3)

*241 SURVEY OF FRENCH LITERATURE II. (3)

*244 FRENCH LITERATURE OF THE MIDDLE AGES. (3)

*245 SIXTEENTH-CENTURY FRENCH LITERATURE. (3)

*252 SEVENTEENTH-CENTURY FRENCH LITERATURE I. (3)

*253 SEVENTEENTH-CENTURY FRENCH LITERATURE II. (3)

*260 EIGHTEENTH-CENTURY FRENCH LITERATURE I. (3)

*261 EIGHTEENTH-CENTURY FRENCH LITERATURE II. (3)

*277 NINETEENTH-CENTURY FRENCH LITERATURE I. (3)

*278 NINETEENTH-CENTURY FRENCH LITERATURE II. (3)

*287 TWENTIETH-CENTURY FRENCH LITERATURE I. (3)

*288 TWENTIETH-CENTURY FRENCH LITERATURE II. (3)

298 FRENCH STUDIES IN FRANCE. (Credit to be arranged.) French language, literature, and civilization. Grants-in-aid are available through the Fredin Memorial Scholarship Fund.

325 TEACHING MODERN LANGUAGES. (3) (Ed 325)

Spanish (Sp)

Lower Division Courses

111 ELEMENTARY SPANISH I. (3) The basic skills.

112 ELEMENTARY SPANISH II. (3) Further development of basic skills. Prerequisite: Sp 111.

121 INTERMEDIATE SPANISH I. (3) Review of grammar. Reading and conversation. Prerequisite: Sp 112.

122 INTERMEDIATE SPANISH II. (3) A continuation of Sp 121. Literary texts, and conversation. Prerequisite: Sp 121.

Upper Division Courses

Prerequisite: Sp 121 or the equivalent. Students should take any two of the following before enrolling in other upper-division courses: Sp 200, 201, 202, 203, 204.

200 ADVANCED SPANISH. (3) Required of majors.

201 ADVANCED READINGS IN SPANISH. (3) Literary and non-literary texts.

202 ADVANCED CONVERSATION. (3)

203 ADVANCED COMPOSITION. (3)

*204 INTRODUCTION TO SPANISH LITERATURE. (3) A chronological presentation based on genres and movements. Analyses of excerpts from representative authors. Required of majors.

*220 SPANISH CIVILIZATION. (3)

*224 LATIN-AMERICAN CIVILIZATION. (3)

*232 SPANISH AUTHORS I. (3) Spanish literature from the beginning to the end of the Golden Century.

*233 SPANISH AUTHORS II. (3) Spanish literature of the eighteenth, nineteenth and twentieth centuries.

*234 LATIN-AMERICAN LITERATURE I. (3) From the beginning to the end of the Romantic Period.

*235 LATIN-AMERICAN LITERATURE II. (3) Nineteenth-century Realism. Naturalism and the twentieth century.

*250 THE NOVEL OF THE GOLDEN CENTURY. (3) A study of Lázaro de Tormes, Don Quijote and other novels of the period.

*251 THE DRAMA OF THE GOLDEN CENTURY. (3) Representative plays by Lope de Vega, Tirso de Molina, Calderon and Cervantes.

*255 GALDÓS. (3) Nineteenth-century Realism. Galdós’s contribution to the novel and drama.

*260 SPANISH NOVELS IN TRANSLATION. (3) A study of ten masterpieces by Spanish novelists from the XVI to the XX century.

*261 GOLDEN CENTURY PLAYS IN TRANSLATION. (3) Plays of the XVI and XVII centuries. Included are works by Cervantes, Lope de Vega, Tirso, Calderon.

*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.

*283 THE DRAMA OF THE TWENTIETH-CENTURY. (3) Major trends and developments. The art as practiced by Benavente and Lorca. The “género chico” and the Quintero brothers.


*285 MODERNISM. (3) The development of the "modernista" period from 1880 to 1920. The role of Rubén Darío.

*286 CONTEMPORARY LATIN-AMERICAN NOVEL. (3) Contributions by Gallegos, Azuela, C. Alegria, Guiraldes and other important writers.
Modern Languages

289 LITERARY TRENDS SINCE 1930. (3) Fiction, drama and poetry in Spain and Latin-America.

290 POST CIVIL WAR SPANISH NOVEL. (3) Main trends and a study of works by Cela, Laforet, Delibes, Aídecoa, Goytisolo and other important authors.

294 SELECTED READINGS. (3) Credit by arrangement. Independent study on a given topic.

325 TEACHING MODERN LANGUAGES. (3) (Ed 325)

395 DIRECTED STUDY. (3) Credit by arrangement. Individualized instruction on a given topic.

Philosophy (PI)

Staff: DR. GENDREAU, chairman; FR. BADO, MRS. BLAIR, DR. BONVILLAIN, FR. CURRAN, DR. DUMONT, DR. JONES, MR. MARRERO, FR. OPPENHEIM, FR. R. SCHMIDT, DR. SOMERVILLE, FR. TILLMAN

Assisted by: FR. FOLEY

(*) Courses so designated are approved as electives for curricular requirements in humanities, subject to limitations as indicated. For courses satisfying philosophy requirements see explanation in curricular guidelines. (p. 34).

Lower Division Courses

AREA I PHILOSOPHY OF MAN: 100-199. Man’s distinctive operations, powers, freedom, nature, unity, spirituality and immortality; man as a person and as social.

Order: Historical 100-119, General 120-159, Special 160-199.

100 PHILOSOPHY OF MAN. (3) The nature and unity of man, distinctive powers and operations, person, freedom, spirituality, immortality.

110 MAN IN THE THOMISTIC SYNTHESIS. (3) The nature of man in the Summa Theologiae of St. Thomas Aquinas.

117 CONTEMPORARY APPROACHES TO MAN. (3) Assumptions of three methodologies: behaviorism (scientific knowledge), existentialism (phenomenology of freedom), and Marxism (history of labor).

121 PERSONALIST ANTHROPOLOGY. (3) Person as a human being; Integral Personalism based on classical, modern, and contemporary philosophies.

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.

125 GROWTH IN KNOWLEDGE AND FREEDOM. (3) Man’s development through experience, awareness of and freedom in selecting and realizing possibilities.

128 MAN: FREEDOM AND DIGNITY. (3) Insight into what it means to be human, and critical understanding of various interpretations of man in contemporary perspectives.

133 MAN GROWING IN COMMUNITY. (3) In a context of various views of man, a study of the individual and communal dimensions of man.

135 ROOTS OF FREEDOM. (3) Man’s reach for freedom, the inner dynamics which give rise to his freedom; obstacles to human freedom.

137 REFLECTIONS ON MAN. (3) Specific issues and various traditions on the metaphysical and phenomenological planes studied in their primary sources.

163 EVOLUTIONARY MAN AND TECHNOLOGY. (3) Man in terms of his long evolution towards mastery of matter.

169 NATURE, MAN, AND WOMAN. (3) Man’s nature as the root of sexuality; facts and myths on sexual differences; unity of man and complementarity of sexes.

180 MAN AND DEATH. (3) The mystery of death; its antagonism to life on its three levels; the person and immortality; death and the meaning of life.
Philosophy

Upper Division Courses

Area II: METAPHYSICS: 200-249. This area deals with what is fundamental within reality. This includes such issues as transcendental being and the properties of being such as unity, truth, and value (and their opposites, multiplicity, falsehood and evil). Other topics are the modes of being, actuality and potentiality; the categories of being, substance and accidents; and the polarities of being: the finite versus the infinite, the contingent versus the necessary; the imperfect versus the perfect, etc.

Order: General 200-209, Special 210-229, and Historical and Contemporary 230-249.

*200 METAPHYSICS. (3) Being and existence; unity and plurality; change, contingency, limitation and participation; categories of being; causes of being.

*201 THE ROOT OF MAN'S VISION. (3) The metaphysics implicit in the masses. Metaphysics as the basis for a world view: existence, limitation, analogy, and causality.

*202 PERSPECTIVES ON REALITY. (3) The meaning and method of metaphysics. Different schools of metaphysics including the main themes and issues.

*203 A PERSONALIST METAPHYSICS. (3) Self-appropriation in being through ontological problematic of person in classical, modern, and contemporary philosophies.

*206 TRANSCENDENTAL METAPHYSICS. (3) A neo-Thomistic study of transcendental being and its properties such as unity and diversity, including the transcendental method.

*211 WISDOM: EAST AND WEST. (3) Wisdom as a learning both in occidental terms of categorization and oriental terms of non-categorical conceptualization.

*212 TRANSCENDENCE IN MYTH AND METAPHYSICS. (3) God as transcendental Being in Christianity. The god of the philosophers and the gods of cosmic myth.

*215 SEARCH FOR TRANSCENDENCE. (3) Person's opportunities for self-appropriation in pluralism in ways of achieving transcendence in being to be real.

*219 METAPHYSICS OF TRUTH AND GOODNESS. (3) The transcendental properties of being. with emphasis on truth and goodness.

*235 PLATO AND KANT. (3) From objective to subjective idealism. A priori in Plato and Kant.

*239 THOMISTIC METAPHYSICS. (3) Metaphysics in the texts of St. Thomas, primarily the treatise On Being and Essence.


Area III: PRINCIPLES OF ETHICS: 250-299. The first principles of right human action; the purpose of human life and the good; morality and its norm; law and rights; conscience; virtue; justice and love; responsibility and authenticity; variety of ethical options and philosophies.

Order: General 250-269, Special 270-299.

*250 PRINCIPLES OF ETHICS. (3) Consideration of right human action, conscience, virtue and law.

*251 APPROACHES TO ETHICS. (3) How various traditions distinguish right from wrong. The classical, dialectical, existential and pragmatic.

*255 SURVEY OF ETHICAL THEORY. (3) Classical and contemporary theories as responses to changing social and historical circumstances.

*257 ETHICAL PRINCIPLES AND PROBLEMS. (3) Naturalistic and deontological ethics on the basis of their ability to shed light on contemporary moral dilemmas.

*259 GENERAL ETHICS AND MEDICAL PROBLEMS. (3) Basis for objective moral standards; current codes of ethics of the medical profession; special cases for technicians.

*260 PERSONALIST ETHICS. (3) Philosophizing in history about person to develop an integral personalist ethics for self-appropriation through human actions.

*271 ETHICS IN COMMUNITY. (3) In context of universal and lesser communities: the moral good, agent, norm and balance, with stress on practical moral reasoning.

*272 DEVELOPMENTAL ETHICS. (3) Ethical theory (the main problems and systems) from the viewpoint of personal moral development.

*276 THE ETHICS OF COMMITMENT. (3) Organizing one's life script in terms of a personal concept of integrity.

*283 ETHICS OF LIBERATION. (3) Liberation self-appropriation beyond liberty and liberalization for person to be operational as personal and communal being.

*286 ETHICS OF TECHNOLOGY. (3) Ethical theory (problems and systems) from the viewpoint of modernity (technology and organization).

Area IV: ELECTIVES: 300-399. Courses intended as a deepening of the philosophical experience acquired in Areas I-III through a comprehensive study in a field inquiry to achieve a synthesis.

Order: Historical Period 300-309, Traditional Core areas especially for majors 310-319; ethics and ethics related 320-329; Philosophies of life 330-349; Special areas 350-379; Authors 380-394; Special study 395; Library Research Seminar 396; Senior Comprehensive Review 398-399.

*300 ORIGINS OF PHILOSOPHY. (3) Philosophy in contrast to myth. Greek philosophy from the beginnings to Plato and Aristotle. Reserved to HAB students.

*301 HISTORY OF ANCIENT PHILOSOPHY. (3) Greek philosophy from its beginnings to Neoplatonism, Plato and Aristotle.

*302 HISTORY OF MEDIEVAL PHILOSOPHY. (3) Christian, Islamic and Jewish developments of Greek philosophy showing medieval pluralism in world-view.

*303 HISTORY OF MODERN PHILOSOPHY. (3) Bacon to Nietzsche.

*305 HISTORY OF CONTEMPORARY PHILOSOPHY. (3) Structuralist basis for diversity of Twentieth Century philosophy.

*306 CONTEMPORARY CONTINENTAL EUROPEAN PHILOSOPHY. (3) One or more current continental philosophies: phenomenology, existentialism, personalism, and Marxism.

*307 CONTEMPORARY BRITISH AND AMERICAN PHILOSOPHY. (3) One or more of linguistic analysis, naturalism, pragmatism and their methods.

*309 ORIENTAL PHILOSOPHY. (3) Hinduism, Buddhism, the Tao.

*310 LOGIC. (3) Language, the formal aspects of reasoning, and the forms of argument in traditional syllogistic and modern symbolic logic.

*314 THEORY OF KNOWLEDGE. (3) Human knowledge as regards its truth and certitude; the evidence grounding diverse judgments; main divergent theories.

*316 PHILOSOPHY OF NATURE. (3) Philosophical questions about nature, matter, motion, space, time, causality and necessity.

*318 PHILOSOPHY OF GOD. (3) Study by natural reason of the source of finite beings; God's existence, knowability, nature, attributes and operations.

*320 MORAL PROBLEMS. (3) An effort to achieve understanding and critical perspective in the face of moral and social controversies.

*321 CASE STUDIES IN BUSINESS ETHICS. (3) Relevant ethical principles. Case studies drawn from various areas of business activity.

*323 CONTEMPORARY MORAL ISSUES. (3) The rights and duties of the person in the context of perennial and contemporary concerns, individual and social.

*324 CONTEMPORARY ETHICAL CHOICES. (3) Integral personalism and triadic opportunity of objectivist, relativistic and structuralistic ways in ethical problems.

*328 ETHICS AND MORAL DEVELOPMENT. (3) Theories of moral development from the viewpoint of the ethical principles involved.

*329 MEDICAL ETHICS. (3) Moral problems about life and death, experimentation and engineering, health care and resources, patient-physician relations.

*330 PHILOSOPHY OF SCIENCE. (3) The logic, epistemology and ontology of science. Scientific research and humanistic concerns.

*334 PHILOSOPHY OF WOMAN. (3) Application of philosophical method to a contemporary issue. Historical survey of philosophers' conceptions of woman.
Physics (Ph)

Staff: DR. MILLER, chairman; MR. HART, FR. O'BRIEN, DR. TOEPKER.
Research Professor: DR. WERNER
Director of Seismology Observatory: FR. BRADLEY
Staff Assistant: MR. KERNS

(*) Courses so designated are approved as electives for curricular requirements in science, subject to limitations as indicated.

Lower Division Courses

104, COLLEGE PHYSICS I, II. (3) each semester. For pre-med, pre-dent, and others.
105, INTRODUCTORY PHYSICS LABORATORY I, II. (1) each semester. These laboratories accompany Ph104 or 108 and Ph 106 or 110 lectures respectively.
110, UNIVERSITY PHYSICS III. (3) Corequisite: Ph 107.
114, INTRODUCTION TO PHYSICAL SCIENCES. (3) For elementary education majors only.
115, INTRODUCTION TO PHYSICAL SCIENCES LABORATORY. (1)

117, OUR UNIVERSE—THE EARTH LABORATORY. (1) Laboratory to accompany Ph 116.
119, OUR UNIVERSE—THE SKY LABORATORY. (1) Laboratory to accompany Ph 118.

Graduate Courses

The limited status of this program is explained in the Graduate School section of this catalogue.

524, PHILOSOPHY OF LOVE. (3)
525, VIEWS ON MAN'S FREEDOM. (3)
526, AESTHETICS AND PHILOSOPHY OF ART. (3)
538, PHILOSOPHICAL PROBLEMS IN MODERN SCIENCE. (3)
543, SOCIETY AND COMMUNITY. (3)
547, PHILOSOPHY OF REVOLUTION. (3)
548, RECENT ETHICAL THEORIES. (3)
549, WAR AND PEACE. (3)

572, THE RATIONALISTS. (3)
575, THE BRITISH EMPIRICISTS. (3)
583, EXISTENTIALISM AND PHENOMENOLOGY. (3)
586, LINGUISTIC ANALYSIS. (3)
592, AMERICAN PRAGMATISTS. (3)
562, PLATO: MAJOR DIALOGUES. (3)
855, ARISTOTLE. (3)
661, PHILOSOPHY OF ST. AUGUSTINE. (3)
663, PHILOSOPHY OF ST. BONAVENTURE. (3)
665, PHILOSOPHY OF ST. THOMAS AQUINAS. (3)
666, WORKS OF ST. THOMAS AQUINAS. (3)
671, DESCARTES. (3)
675, HUME. (3)
677, KANT. (3)
679, HEGEL. (3)
698, SPECIAL STUDY. Credit to be arranged.
699, MASTER'S THESIS. (6)

501, THE BRITISH EMPIRICISTS. (3)
583, EXISTENTIALISM AND PHENOMENOLOGY. (3)
586, LINGUISTIC ANALYSIS. (3)
592, AMERICAN PRAGMATISTS. (3)
562, PLATO: MAJOR DIALOGUES. (3)
855, ARISTOTLE. (3)
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666, WORKS OF ST. THOMAS AQUINAS. (3)
671, DESCARTES. (3)
675, HUME. (3)
677, KANT. (3)
679, HEGEL. (3)
698, SPECIAL STUDY. Credit to be arranged.
699, MASTER'S THESIS. (6)
### Upper Division Courses

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### Lower Division Courses

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### Additional Notes

- Courses so designated are electives for curricular requirements in social science, subject to limitations as indicated.

### Political Science (Po) and Sociology So

Staff: DR. HEIGHBERGER, chairperson; FR. ANGILELLA, FR. JOHNSTON, DR. MOUTHON, MR. WEIR, MR. WEISSBUCH

Assisted by: MS. DWYER, DR. ENDRES, DR. GOODMAN, DR. GRUBER, MR. LEVIN-RAT, MR. MALONEY, MR. MCVAY, DR. SIMON

(*) Courses so designated are approved as electives for curricular requirements in social science.
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<tr>
<td>260</td>
<td>POLITICAL SOCIOLOGY. (3)</td>
<td>(So 260)</td>
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<tr>
<td>272</td>
<td>NATIONALISM AND COMMUNISM IN ASIA. (3)</td>
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<td>273</td>
<td>HISTORY OF KOREA. (3)</td>
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<td>274</td>
<td>SOUTHEAST ASIA TO WORLD WAR II. (3) (Hs 274)</td>
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<td>275</td>
<td>SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Hs 275)</td>
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<td>276</td>
<td>INDIA TO 1857. (3)</td>
<td>(Hs 276)</td>
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<td>279</td>
<td>INDIA SINCE 1857 AND PAKISTAN. (3) (Hs 279)</td>
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<td>283</td>
<td>JAPAN TO 1868. (3)</td>
<td>(Hs 283)</td>
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<td>284</td>
<td>JAPAN SINCE 1868. (3)</td>
<td>(Hs 284)</td>
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<td>285</td>
<td>CHINA TO 1844. (3)</td>
<td>(Hs 285)</td>
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<td>286</td>
<td>CHINA SINCE 1844. (3)</td>
<td>(Hs 286)</td>
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<td>287</td>
<td>CHINA: INTELLECTUAL HISTORY. (3) (Hs 287)</td>
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<td>JAPAN: INTELLECTUAL HISTORY. (3) (Hs 288)</td>
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<td>289</td>
<td>CHINA: MAO'S FOREIGN POLICY. (3)</td>
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<td>292</td>
<td>NATIONALISM IN MODERN TIMES. (3)</td>
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<td>298</td>
<td>ADVANCED READING AND RESEARCH. Credit arranged.</td>
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<td>300</td>
<td>GOVERNMENT AND BUSINESS I. (3) (Ec 330)</td>
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<td>302</td>
<td>INTRODUCTION TO PUBLIC ADMINISTRATION. (3) Local and state. Primary emphasis is on national problems and the federal civil service.</td>
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<td>305</td>
<td>PUBLIC FINANCE AND TAXATION. (3) (Fl 335, Ec 335)</td>
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<td>340</td>
<td>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.</td>
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<td>348</td>
<td>CONSTITUTIONAL HISTORY OF U.S. TO 1865. (3) (Hs 348)</td>
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<td>349</td>
<td>CONSTITUTIONAL HISTORY OF U.S. SINCE 1865. (3) (Hs 349)</td>
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<td>351</td>
<td>AMERICAN REVOLUTION: CONFLICT &amp; CONSENSUS. (3) (Hs 351)</td>
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<td>352</td>
<td>PRINCIPLES OF RESEARCH. (3) Survey research and data analysis as used in modern political and social research. (So 352)</td>
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<td>358</td>
<td>URBAN AMERICA. (3) (Hs 358)</td>
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<td>359</td>
<td>STATE AND LOCAL GOVERNMENT. (3)</td>
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<td>360</td>
<td>AMERICAN POLITICAL PARTIES. (3) (Hs 360)</td>
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<td>361</td>
<td>HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) (Hs 361)</td>
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<td>365</td>
<td>THE NEGRO IN AMERICA. (3) (Hs 365)</td>
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Sociology (So)

Lower Division Courses

101 INTRODUCTION TO SOCIOLOGY. (3) Social behavior within the context of group structure, society, and culture. Basic sociological terminology and methodology.

121 CONTEMPORARY SOCIAL PROBLEMS. (3) The function of cultural values and social structures in defining social problems and proposing solutions. Problems are considered in terms of their origin, extent, and treatment.
Sociology

Upper Division Courses


216 SOCIOLOGY OF RELIGION. (3) Classical and contemporary sociological perspectives concerning relationship between religion and society.

220 INTRODUCTION TO SOCIAL WORK. (3) Concepts of social work. Social service in various aspects of sociology. (Ed 220).

222 PRINCIPLES OF SOCIAL CASE WORK. (3) Behavior, attitudes, and relationships involved in contacts of case workers and clients. Casework practices in community agencies. (Ed 222).

230 SOCIOLOGY OF LEISURE AND RECREATION. (3) The role and functions of leisure and recreation in culture and society.

232 SOCIOLOGY OF SPORT. (3) Organized sport as an important institutional component of American culture and society.

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.

245 APPALACHIAN IN URBAN LIFE. (3) Subcultural contact with the urban community. Social and economic adjustment problems of this group. (Ed 245).

250 RACIAL AND ETHNIC MINORITIES. (3) Minority groups in contemporary United States. Social processes involved in dominant minority relations.

260 POLITICAL SOCIOLOGY. (3) Bureaucratic organization, authority, power and voting behavior in political institutions. Relationships to social conditions and social institutions.

261 SOCIAL PSYCHOLOGY. (2) (Ps 261, Ed 261).

262 SOCIAL DYNAMICS OF COMMUNICATION. (3) (Ed 262, Ps 262).

265 SOCIAL STRATIFICATION. (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.

270 INDUSTRIAL SOCIOLOGY. (3) Industry as a social system and its relationship to the community. Structure, function, and strain of industrial roles.

271 CULTURAL ANTHROPOLOGY. (3) Concepts and materials of culture from the fields of ethnography, ethnology, and archaeology. Origin, development, universals, and variations of culture through cross-cultural analysis.

272 ANTHROPOLOGY OF THE AMERICAN INDIAN. (3) Prehistory and development of Indian culture in North America. Similarities and differences by cultural area.


300 SOCIOLOGICAL THEORIES. (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.

310 MARRIAGE AND THE FAMILY. (3) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting. (Th 310).

350 SEMINAR IN SOCIOLOGY. (3) Selected topics and readings for senior sociology majors. (Others with permission of instructor.)

352 PRINCIPLES OF RESEARCH. (3) (May be taken in place of So 360 to fulfill requirement of Sociology major.) (Po 352).

395 DIRECTED STUDY. Credit to be arranged.

Psychology (Ps)

Staff: DR. BIELIAUSKAS, chairman; DR. BARREY, assistant chairman; DR. BERG, DR. CERBUS, DR. CLARKE, DR. COSGROVE, DR. DEARDORF, DR. FEUSS, FR. FOLEY, DR. HELLKAMP, DR. KRONENBERGER, MR. LaGRANGE, DR. MEZINSKIS, DR. QUATMAN, DR. ROTH, DR. SCHMIDT.

Assisted by: DR. COLLIGAN, MR. D fierMAN, MRS. GLUECK, DR. LIPPERT, DR. MONNIG, DR. SCHWEITZER, DR. SMITH.

(1) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

Lower Division Courses

100 EFFICIENT READING AND STUDY SKILLS. (0) Reading comprehension, rate of reading, study habits. Increase ability to interpret, analyze, and evaluate general reading material and specific course areas.

101 GENERAL PSYCHOLOGY. (3) Basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, personality development.

102 ADVANCED GENERAL PSYCHOLOGY. (3) Scientific methodology in psychology. Application to experimental studies in perception, motivation, thinking, memory, learning, individual differences. Prerequisite: Ps 101.

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.

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.

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.

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.

141 HUMAN GROWTH AND DEVELOPMENT I. (3) (Ed 141).

142 HUMAN GROWTH AND DEVELOPMENT II. (3) (Ed 142).

143 EDUCATIONAL PSYCHOLOGY. (3) Psychological principles applied to learning and teaching. Prerequisite: Ps 101.

Upper Division Courses

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.

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).

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.

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.

223 EXPERIMENTAL PSYCHOLOGY. (5) Summers only.

227 THE BIOLOGICAL BASIS OF ANIMAL BEHAVIOR. (4) (Bl 340, 341).

231 DEVELOPMENTAL PSYCHOLOGY. (3) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration. (Ed 231).

232 CHILD PSYCHOLOGY. (2) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (Ed 232).

233 ADOLESCENT PSYCHOLOGY. (2) Interrelated physical, physiological, and mental changes associated with adolescence. (Ed 233).


237 PSYCHOLOGY OF LEARNING. (3) Experimental study of human and animal learning, including transfer, mediation, retention, verbal and concept learning. Prerequisite: Ps 101. (Ed 237).

239 PSYCHOLOGY OF MOTIVATION. (3) Theoretical and experimental approaches to the understanding of processes that determine the strength and direction of behavior. Prerequisite: Ps 261. (Ed 239).

251 INDUSTRIAL PSYCHOLOGY. (2-3) Principles of sound psychological procedures as applied to personnel in commerce and industry. Concentration upon human element in American industry. (IR 330).

255 PSYCHOLOGY OF CAREER DEVELOPMENT. (1) A workshop designed to help students understand their abilities, interests and values and see how these relate to career fields. Prerequisite: Ps 261. (Ed 255).

261 SOCIAL PSYCHOLOGY. (2) The individual's personality, attitudes, and behavior in multi-individual situations. (Ed 261, So 261).

262 SOCIAL DYNAMICS OF COMMUNICATION. (3) Communication in human relations. The effects of attitudes, belief systems, and prejudices on both verbal and non-verbal interactions. Theoretical considerations. Practical demonstrations. (Ed 262, So 262).

266 CRIME AND PERSONALITY. (3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (Cr 266, Ed 266).

271 INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD. (2) (Ed 271).

274 MENTAL HYGIENE. (2) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ed 274).

276 PSYCHOLOGY OF DELINQUENCY. (2) Types and causes of juvenile delinquency together with brief case histories. (Ed 276).

277 ABNORMAL PSYCHOLOGY. (2-3) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. (Ed 277).

279 PSYCHOLOGICAL AND ACHIEVEMENT TESTS. (2-3) (Ed 579).

280 PRINCIPLES OF BEHAVIOR MODIFICATION. (3) Major theories of learning and conditioning and their application to changing of human behavior. On-site visits of some behavior modification programs. (Ed 280).

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. (Ed 281).

283 PRACTICUM IN PSYCHOLOGICAL TESTING. (2-3) Practical experience in administering of group tests; scoring and interpretation. Prerequisite: Ps 279 and instructor's approval. (Ed 283).

285 THE PSYCHOLOGY OF RELIGION. (3) (Th 285).

290 UNDERGRADUATE PRACTICUM IN PSYCHOLOGY. (3) Interviewing, behavior observation, test administration, report writing, and group dynamics through on-the-job training. Opened to seniors only, upon approval of the Departmental Chairman.

299 SENIOR COMPREHENSIVE REVIEW. (2) Required of all majors. May substitute original research project upon approval of Departmental Chairman. Prerequisite: senior standing and instructor's approval.

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Graduate Courses

The following courses are required of all graduate students: 263, 264, 501, 502, 505.

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.

502 PHILOSOPHICAL ISSUES IN PSYCHOLOGY. (3) Historical development of basic psychological concepts from Aristotle to the present. Interrelations between science, psychology, and philosophy.

503 ADVANCED EDUCATIONAL PSYCHOLOGY. (3) (Ed 503).

505 PROFESSIONAL PROBLEMS IN PSYCHOLOGY. (1) Basic principles of ethics and their application to psychological theory, research, and practice. Case studies.

507 ROLE AND FUNCTION OF SCHOOL PSYCHOLOGIST. (2)


521 ADVANCED EXPERIMENTAL PSYCHOLOGY. (3) Intensive survey of experimental procedures and findings; utilization of laboratory equipment; introduction to individual laboratory research.

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).

530 LEARNING AND MOTIVATION. (3) Theories of learning. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention and forgetting. (Ed 530).

532 PRINCIPLES OF GUIDANCE. (2) (Ed 532).

533 COUNSELING PRINCIPLES AND TECHNIQUES. (2) (Ed 533).

535 OCCUPATIONAL INFORMATION. (2) Sources of information about occupational fields and their utilization in counseling. Psychology of career choice. (Ed 535).

536 GROUP GUIDANCE. (2) (Ed 536).

538 DESIGN OF EXPERIMENTS. (3)

552 PERSONAL SELECTION AND EVALUATION TECHNIQUES. (3)

553 MARKETING RESEARCH. (3) (BA 562).

580 PSYCHOPATHOLOGY. (2) (Ed 580).

582 INDIVIDUAL TESTS OF INTELLIGENCE. (2-4) (Ed 582).

584 PROJECTIVE TECHNIQUES I. (3)

585 PROJECTIVE TECHNIQUES II. (3) Prerequisite: Ps 584.

586 PSYCHO-EDUCATIONAL ASSESSMENT. (3) (Ed 586).

589 COUNSELING AND PSYCHOTHERAPY. (3)

590 PRACTICUM: EXPERIMENTAL PSYCHOLOGY. (3-6)
Psychology

591 PRACTICUM: CLINICAL PSYCHOLOGY, (3-6)
592 PRACTICUM: COUNSELING PSYCHOLOGY, (3-6)
593 PRACTICUM: INDUSTRIAL PSYCHOLOGY, (3-6)
598 INTRODUCTION TO PSYCHIATRIC TREATMENT METHODS, (3)
600 WORKSHOPS AND INstitutes. Titles and credit hours will be announced in each individual case.
620 WORKSHOP: CHARACTER DISORDERS, (1) (Ed 620).
643 SEMINAR: INDUSTRIAL PSYCHOLOGY, (2) (Ed 643).
644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS, (3) (Ed 644, BA 644).
645 ADVANCED DEVELOPMENTAL PSYCHOLOGY, (3) (Ed 645).
646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD, (3) (Ed 646).
647 CLINICAL STUDIES: TEACHING THE EMOTIONALLY DISTURBED CHILD, (2) (Ed 647).
648 PRACTICUM: TEACHING THE EMOTIONALLY DISTURBED CHILD, (2) (Ed 648).
651 MONTESSORI EDUCATION: PHILOSOPHICAL ASPECTS, (Ed 651).
652 CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT, (3) (Ed 652).
653 EARLY COGNITIVE DEVELOPMENT, (3) (Ed 653).
670 PSYCHOLOGY OF READING, (2) (Ed 670).
678 DIAGNOSIS AND CORRECTION OF READING DISABILITIES, (3) (Ed 678).
689 RESEARCH IN PSYCHOLOGY, (3) Titles to be specified.
690 INTERNSHIP IN SCHOOL PSYCHOLOGY, (6) per semester. A year's course.
699 MASTER'S THESIS, (6)

Theology (Ph)

Staff: FR. KLEIN, chairman; FR. BRUEGEMAN, DR. CALLAN, FR. CARTER, SR. GRAF, FR. KING, DR. KNITTER, FR. MOELL, FR. O'CONNOR

Assisted by: FR. CIVILLE, RABBi GOLDMAN)

(1) Courses so designated are approved as electives for curricular requirements in humanities, subject to limitations as indicated.

Lower Division Courses

INTRODUCTION TO THEOLOGY, (3) The method of theology: Mankind's fundamental religious questions with emphasis on the Judeo-Christian experience of God.

Upper Division Courses

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.)

FOUNDATIONS OF NATURAL RELIGION, (3) The rational basis for religious belief. Man's freedom and immortal soul. For non-Catholic students primarily.

THE FUNCTION OF THEOLOGY, (3) The nature, purpose, method and conditions of theology. Its relation to revelation and Church authority.

CHRISTIAN SYSTEMATICS—I, (3) Introduction to major systematic questions in Christian theology: God-faith, Christology. (Limited to majors and other interested and qualified students.)

THEOLOGY OF CREATION, (3) The origin, evolution, preservation and destiny of man and the universe as seen by non-Christian religions, modern science and the Christian revelation.

EARLY CHRISTIANITY, (3) Development of Christianity from the apostolic age through the Christological and Trinitarian controversies of the first centuries.

CHRIST IN MODERN THOUGHT, (3) Current Christological trends with emphasis on the humanity of Jesus, His resurrection, the traditional view, the modern view.

THE CHURCH THROUGH THE CENTURIES—I, (3) Development of the Christian churches up to the time of the Protestant Reformation.

THE CHURCH THROUGH THE CENTURIES—II, (3) Development of the Christian churches from the time of the Protestant Reformation to the present.


LIFE AFTER DEATH, (3) An interdisciplinary approach to 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.

CHRISTIAN COMMUNITY, (3) The Church as Christ prolonged in the community of believers and as a structured organism from the primitive community to the modern Church.

CHRISTIAN LIFE AND CELEBRATION, (3) The Christian's participation in Christ's life, death and resurrection through the liturgy of Word and Sacrament in the Institutional Church.

SACRAMENTAL ENCOUNTER WITH CHRIST, (3) The sacraments as continuations in the Church of the mysteries of Christ's life and as personal encounters between Christ and the Christian.

POST-VATICAN II EUCHARISTIC THEOLOGY, (3) Historical developments and new thrusts in Eucharistic theology, such as: transfiguration, transfiguralization.

HISTORY AND DOCUMENTS OF VATICAN II, (3) Historical development of key theological ideas of principal documents of Vatican II and their influence on the future of the Church.

THE MODERN PROBLEM OF GOD, (3) The perennial problem of man's knowledge of and approach to God as seen especially in its contemporary atheistic forms.

AUTHORITY IN THE CHURCH, (3) Contemporary Roman Catholic teaching on Church authority, especially the papacy and episcopal collegiality, in the light of non-Roman positions.


CHRISTIAN SECULARITY, (3) The Christian's involvement in the world; the secularization process in history; the relation of the sacred and secular.

THE BLACK CHURCH IN AMERICA, (3) The impact of Christianity upon Black American culture from the time of enslavement to the present.

CHRISTIANITY AS MISSION, (3) A study of the missionary implications of the Christian Gospel along with the history of Christian missionary efforts.

THE THEOLOGY OF KARL RANIER, (3) His ideas on revelation, faith, history, Christ, Church, sacraments, anonymous Christianity, mystery, tradition and other topics.

THE THEOLOGY OF PAUL TILlich, (3) Tillich's writings, especially his Systematic Theology.
Theology

*249 GOD IN EVOLUTION. (3) The possibilities offered by Process Theology for a contemporary interpretation of Christian doctrines.

*250 INTRODUCTION TO SCRIPTURE. (3) An introduction to the historical, literary and religious development of both Old and New Testaments with emphasis on use of the tools of scripture study.

*251 OLD TESTAMENT THEOLOGY. (3) A treatment of the major religious themes in the Old Testament.


*254 PSALMS. (3) A study of the psalms: their literary composition and their theological content.

*255 OLD TESTAMENT PROPHETS. (3) A study of the writings of Israel's prophets with special attention given to the religious content and historical background.

*261 THE WRITINGS OF ST. PAUL. (3) The principal ideas of the Pauline letters and the distinctive contribution of Paul to Christian theology.


*264 THE SYNOPTIC GOSPELS. (3) The composition of these Gospels and the distinctive features of each Gospel.

*270 THEOLOGY OF NEW TESTAMENT SPIRITUALITY. (3) A comprehensive survey of the spiritual teaching in the Gospels and the Pauline letters.

*281 BELIEF AND NON-BELIEF IN MODERN LITERATURE. (3) The crisis of faith in modern man as expressed in significant works of modern literature. (En 281).

*285 PSYCHOLOGY OF RELIGION. (3) Scientific investigation of religious experience: origins, expressions, growth, maturity, and attitudes in the context of personality. (Ps 285).

*286 AUTOBIOGRAPHY AND DISCOVERY. (3) (En 286).

*293 JESUS IN MODERN FICTION. (3) (En 293).

*302 PRINCIPLES OF CHRISTIAN MORALITY. (3) Basic concepts of Christian ethics with case studies from medical, sexual and social ethics to illustrate the principles.

*303 INTRODUCTION TO CHRISTIAN ETHICS. (3) An Introduction to the methods and central questions of Christian ethics. (Limited to majors and other interested and qualified students.)

*305 CHRISTIAN SOCIAL JUSTICE IN CINCINNATI. (3) A review of Roman Catholic social teaching applied to critical local concerns.

*306 LIBERATION THEOLOGY. (3) Christian concern for justice arising from contemporary social, political and economic injustice.

*310 MARRIAGE AND THE FAMILY. (3) An interdisciplinary approach to marriage and the family with the interactions of a psychologist, sociologist and theologian. (So 310 and Ps 310).

*312 CHRISTIAN MEDICAL ETHICS. (3) An interdisciplinary approach to major contemporary issues of medical concern.

*313 CHRISTIAN SEXUAL ETHICS. (3) An interdisciplinary approach to major issues of human sexuality.

*314 CHRISTIAN BUSINESS ETHICS. (3) An interdisciplinary approach to major issues of economic concern.

*320 MAN AT PRAYER. (3) The nature, objectives, conditions, methods and styles of prayer. The liturgy, spiritual retreats, discernment of God's will, answer to prayer.

*327 HISTORY AND THEOLOGY OF MYSTICISM. (3) Analysis of the mystical dimension of religion with consideration of the writings of major figures in the tradition of mysticism.


Theology

*329 CHRISTIAN WORSHIP—I. (3) Ritualization of Christian reconversion, marriage, ministry, illness, death and burial. The arts in ritual. Prerequisite: Th 328.

*337 RELIGIOUS EDUCATION PRACTICUM. (3) Supervised teaching of religion on the elementary or secondary levels.

*343 DIALOGUE AMONG WORLD RELIGIONS. (3) The foundations for a greater ecumenism among all religions; how Christians can come to a more positive attitude toward other religions.

*344 DIALOGUE AMONG WORLD RELIGIONS—I. (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.

*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. (Ci 345).

*352 THE JEWISH EXPERIENCE—I. (3) A survey of the development of the Jewish people and Judaism over thirty thousand years: their faith, basic literature, customs and ceremonies; their dramatic historical crises.


*370 REFORMATION HISTORY AND THEOLOGY. (3) The lives and basic teachings of the principal Sixteenth Century Reformers.

*374 THE CHRISTIAN CHURCHES IN AMERICA. (3) The arrival and growth of the Catholic and Protestant Churches. Their inter-relations and involvement in the sociological history of the United States.

*376 ROMAN CATHOLICISM IN AMERICAN HISTORY. (3) The transplantation of Roman Catholicism to America: colonization, immigration, the formation of an American Catholic Church.

*396 DIRECTED STUDY. Credit to be arranged.

*398 CHRISTIAN COMMITMENT. (3) A special program offered with the campus ministry focusing on the student's growth in Faith. Admission by interview only.
Departments—
The College of Business Administration

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

Accounting (Ac) and Finance (Fi)

Staff: MR BEHLER, chairmain; MR. LOGSDEN, MR. MAILY, DR. MARTIN, MR. SCHUTZMAN, MR. SMITH, MR. VANDERBECK, MS. WHETSEL, MR. WILZ
Assisted by: MR. BERBERICH, MRS. EVERT, DR. NEHMAN, MR. KNUEVEN, MR. IMWALLE, MR. N. O'CONNOR, MR. ROTHWELL, DR. SCHULTZ, MR. STONE

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

Accounting (Ac)

Lower Division Courses

100 PRINCIPLES OF ACCOUNTING I. (3) Elementary principles and procedures supplemented with practical problems and practice sets.

101 PRINCIPLES OF ACCOUNTING II. (3) A continuation of Ac 100 which is also prerequisite.

Upper Division Courses

200 INTERMEDIATE ACCOUNTING I. (3) A broad background of theory coordinated with practical problems. Prerequisite: Ac 101.

201 INTERMEDIATE ACCOUNTING II. (3) A continuation of Ac 200 which is also a prerequisite.

220 MANAGERIAL COST ACCOUNTING I. (3) Study of elements involved in industrial production with special emphasis on costs and reports. Prerequisite: Ac 201.

221 MANAGERIAL COST ACCOUNTING II. (3) A continuation of Ac 220 which is also prerequisite.

230 TAXATION. (3) Tax laws with special emphasis on federal tax laws as it relates to individuals. Prerequisite: Ac 201.

231 EFFECTIVE TAX PLANNING. (3) Tax planning as it relates to corporations, partnerships, trusts, and estates. Prerequisites: Ac 201.

260 ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of financial statements of business enterprises. Prerequisite: Ac 201 (Fi 260).

265 ACCOUNTING FOR NON-BUSINESS STUDENTS. (3) Non-technical approach to management of personal and business finances, taxes, and investments.

270 TUTORIAL COURSE. (2-3) Special reading and study for advanced students.

280 ADVANCED ACCOUNTING PROBLEMS. (3) Advanced study in accounting related problems applicable to partnerships and corporations, insurance, and fiduciaries. Prerequisite: Ac 201.

285 ADVANCED ACCOUNTING THEORY. (3) Theory and current issues as identified through releases of FASB, CASB, and SEC. Prerequisites: Ac 310 and permission of instructor.

290 AUDITING PRINCIPLES. (3) A comprehensive study of the fundamental principles of auditing. Prerequisite: Ac 201.

Finance (Fi)

Upper Division Courses

301 FINANCIAL MANAGEMENT. (3) Major problems and methods used in financing business enterprises. Prerequisite: Ac 201 (Ac 280).

325 ADVANCED AUDITING. (3) Auditing theory applicable to independent and internal management audits of corporations and governments. Prerequisite: Ac 320 and permission of the instructor.

326 COMPUTER AUDITING AND E.D.P. (3) The use of the computer and E.D.P. in auditing.

330 ACCOUNTING FOR NON-PROFIT INSTITUTIONS. (3) Budgetary control; the operation of funds, and management reporting in Federal agencies. Prerequisites: Ac 201 and Ac 221.

341 SYSTEMS: ANALYSIS AND DESIGNS. (3) (Mg 341, IS 341).

342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) (Mg 342, IS 342).

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.

Accounting

325 ADVANCED AUDITING. (3) Auditing theory applicable to independent and internal management audits of corporations and governments. Prerequisite: Ac 320 and permission of the instructor.

326 COMPUTER AUDITING AND E.D.P. (3) The use of the computer and E.D.P. in auditing.

330 ACCOUNTING FOR NON-PROFIT INSTITUTIONS. (3) Budgetary control; the operation of funds, and management reporting in Federal agencies. Prerequisites: Ac 201 and Ac 221.

341 SYSTEMS: ANALYSIS AND DESIGNS. (3) (Mg 341, IS 341).

342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) (Mg 342, IS 342).

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.
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.

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.


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.


290 UNIFORM COMMERCIAL CODE. (3) Preparation of candidates for the C.P.A. exam.

396 BUSINESS ADMINISTRATION PROBLEMS. (3) Case studies. Seniors. Development of analytical ability, decision-making skills, and imagination in devising feasible action programs.

Graduate Courses

Students selecting courses for the degree of Master of Business Administration must include the five core courses—BA 511, 512, 513, 514, and 515—in their programs. They will include appropriate courses from the offerings for their area of concentration. As a climax to their work they will take BA 699, a seminar dealing with practical problems.

501 BASIC ECONOMICS. (4) An accelerated course in the principles of economics for MBA students without previous course work in economics.

502 INTRODUCTION TO QUANTITATIVE METHODS. (2) Algebra, vectors, matrix algebra, differentiation, integration, and differential equations relevant to economic management.

503 BASIC ACCOUNTING. (4) Elementary principles and procedures supplemented with practical problems.

505 BASIC MARKETING. (4) Principles of marketing: concepts, functions, institutions and policies.

506 BASIC STATISTICS. (2) Descriptive statistics and classical statistical inference.

507 BASIC FINANCE. (2) The various types of American enterprises with special emphasis on the corporation—its organization, management, financing, and budgeting.

510 ECONOMICS OF BUSINESS. (3) Functions of the economic system; national income; business fluctuations, forecasting, government economics. Keynesian economic analysis, monetary and fiscal policies. Prerequisite: BA 501 or equivalent.

512 QUANTITATIVE BUSINESS METHODS. (3) Probability, PERT, optimization, inventory, linear and nonlinear programming, game theory, Markov Analysis, queuing, heuristic programming, etc. Prerequisite: BA 502 or equivalent.

513 MANAGERIAL ACCOUNTING. (3) The contribution of accounting to efficient business administration. Prerequisite: BA 503 or equivalent. B.S.B.A. (Accounting) graduates may substitute: Ac 315, Ac 325 or Ac 330.

514 ADMINISTRATIVE OPERATION. (3) Techniques of planning, organizing, directing, and control in business with emphasis on the behavioral aspects.
561 MARKETING MANAGEMENT. (3) New developments. Individual reports used for practical demonstration of theory application. Prerequisite: BA 515.

562 MARKETING RESEARCH. (3) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research.

563 INDUSTRIAL MARKETING. (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products.

564 CONSUMER BEHAVIOR THEORY. (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing.

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.

566 MARKETING AND THE LAW. (3) Statutory and case law as each affects marketing decision making. Sales contract, warranties, transfer of the title, remedies under U.C.C.

569 MARKETING MODELS. (3) Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: BA 515. (Math or computer background not necessary.)

570 SEMINAR: CONTEMPORARY MARKETING ISSUES. (3) Current developments in marketing as related to social issues. Consumerism, ecology, social responsibility, ethical issues, and governmental roles.

575 MARKETING COMMUNICATIONS. (3) Fundamental behavioral and communications concepts upon which to build a sound marketing communications program. Prerequisite: BA 515.

580 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.

581 MANAGEMENT PLANNING. (3) The planning function of management. Intermediate and long-range planning. Prerequisite: BA 514.

582 MANAGEMENT INFORMATION SYSTEMS. (3) Management information systems, in particular real-time MIS. Prerequisite: Ac/Mg 540 or equivalent.

583 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.

584 PRODUCTION CONTROL. (3) Advanced production and inventory control concepts and methods. Functions served by inventories. Recommended prerequisite: BA 506 or equivalent.

585 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 equivalent.

586 SMALL BUSINESS OPERATION. (3) Organization, location, management, finance, production, and marketing problems of small business are studied. Lecture and case method.

587 SEMINAR: APPLIED INDUSTRIAL MANAGEMENT TECHNIQUES. (3) Interdisciplinary. Solution of industrial management problems. Prerequisite: BA 604 or equivalent.

588 DATA BASE DESIGN. (3) Types of data file structures. Data base management systems. Prerequisites: IS 100 and IS 345 or equivalents.

589 MANAGEMENT ASPECTS OF MIS. (3) Planning and evaluating the feasibility of management information systems (MIS), controlling and organizing aspects of management information systems. Prerequisites: IS 100 and IS 341 or equivalents.

600 PROBLEMS OF LABOR. (3) An analysis of labor-management problems through the use of the "Incident Process."

611 ADVANCED PERSONNEL MANAGEMENT. (3) A case method approach to complex personnel problems at the management level.
ANALYSIS. (3) Economic principles. Fundamental concepts of value of population, agriculture, industry, domestic and relation to the development of agriculture, commerce, and industry in the

OF ECONOMIC THOUGHT. (3) World economic movements. Aristotle, Thomas Aquinas, Adam Smith, Ricardo, Mills, Malthus, George, Clark, Bentham, Jevons and

HYPOTHESIS TESTING AND REGRESSION ANALYSIS. Prerequisite: Ec 102.

PUBLIC FINANCE AND TAXATION. (3) Forms of taxation; incidence of taxation; borrowing; non-tax revenues; expenditures; the effects of government finance on the economy. Prerequisite: Ec 101. (Po 335, Fi 335).


CURRENT ECONOMIC PROBLEMS. (3) Current problems: labor, monetary and fiscal policy, debt management, social security legislation, and public regulation.

MANAGERIAL ECONOMICS. (3) Microeconomic analysis for decision making within the business firm. The relationship between theory and the decision process. Prerequisite: Ec 102.

SEMINAR IN ECONOMICS. (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: Ec 101, 102.

TUTORIAL COURSE. (2-3) Special reading and study for advanced students. Other courses are acceptable for a major in economics at the discretion of the Chairman or the student's advisor.

Graduate Courses


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).

BUSINESS FORECASTING. (3) (BA 532).

BUSINESS AND PUBLIC POLICY. (3) (BA 535).

ECONOMICS OF LABOR. (3) Determinants of the competitiveness of labor markets; study of economic determinants of employment levels. Seminar method is used. (BA 538).

SEMINAR: CURRENT ECONOMIC PROBLEMS. (3) (BA 539).

INDUSTRIAL PRICING. (3) The basic conditions, market structure, conduct and performance of American industry. Pricing behavior of competitive and oligopolistic enterprises. (BA 540).

SEMINAR: COLLECTIVE BARGAINING. (3) (BA 612).

SPECIAL STUDY. Credit by arrangement.

M A S T E R ' S T H E S I S. (6)
Industrial Relations

Industrial Relations (IR)

Upper Division Courses

*210 HUMAN RESOURCES. (3) Prerequisites: Ec 101, 102. (Ec 210, Mg 210).

*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. (Ec 300).

310 CURRENT LABOR PROBLEMS. (3) Analytical framework for examining labor problems. Application to important problems facing the labor movement today. Prerequisite: IR 210. (Ec 310).

*311 HISTORY OF THE LABOR MOVEMENT. (3) Workers' movements in the U.S.; comparison of characteristics of different organizations from the Colonial period to the present. (Ec 311).

313 LABOR LAW. (3) Development of labor law in the U.S.; emphasis on laws treating unions, worker combinations, labor-management relations, internal union affairs, and working conditions. (Ec 313).

317 LABOR UNIONS. (3) The role of labor unions in American society.

320 PERSONNEL ADMINISTRATION. (3) (Mg 320).

330 INDUSTRIAL PSYCHOLOGY. (3) (Ps 251).

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Application of higher mathematics to recurring business problems. Basic operations research techniques are covered. Prerequisites: Mt 112, 122.

332 HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of causes and remedies of unemployment. Prerequisites: Ec 100, 101. (Ec 210, Ec 210).

333 MANAGERIAL METHODS ANALYSIS. (3) Managerial techniques for optimum effectiveness: process charting, work and time measurement, performance rating, work sampling, and paperwork procedures. Prerequisite: Mg 100.

334 DATA PROCESSING INFORMATION SYSTEMS. (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of EDP systems. Prerequisite: Mg 340 or equivalent. (Ac 340, IS 340).

335 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of EDP systems. Prerequisite: Mg 340 or equivalent. (Ac 340, IS 340).


337 TUTORIAL COURSE. (3) Research in scholarly journals on a management topic of current interest. Open to students only with consent of instructor. Approved Electives: Upon consultation with, and approval of, the Department.

Approved Electives: Upon consultation with, and approval of, the Department.

Management

Management (Mg)

Lower Division Course

100 PRINCIPLES OF MANAGEMENT. (3) The process of management applicable to forms of business organization. Essentials of the production function.

Upper Division Courses

210 HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of causes and remedies of unemployment. Prerequisites: Ec 100, 101. (IR 210, Ec 210).

300 LABOR RELATIONS. (3) (IR 300).

301 FINANCIAL MANAGEMENT. (3) Major problems and methods used in financing business enterprise from the viewpoint of business management. Prerequisites: Fi 255, Mg 100.

302 PRODUCTION MANAGEMENT. (3) Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisite: Mg 100.
Information Systems

INFORMATION SYSTEMS (IS)

Lower Division Course

100 PRINCIPLES OF DATA PROCESSING. (3) Structure, function, and application of computers and data processing systems. Projects using BASIC language in a time sharing mode.

Upper Division Courses

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Application of higher mathematics to recurring business problems. Basic operations research techniques are covered. Prerequisite: Mi 112, 122.

341 SYSTEMS ANALYSIS AND DESIGN. (3) EDP systems analysis and design. Work simplification for improved data processing methods and procedures. Prerequisite: IS 100 or equivalent. (Ac, Mg 341)

342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of EDP systems. Prerequisite: IS 100 or its equivalent. (Ac, Mg 342).

343 FORTRAN PROGRAMMING. (3) FORTRAN II and IV programming languages for scientific problems. (Mg 343).

344 COBOL PROGRAMMING. (3) COBOL programming language for business problems.

345 DATA PROCESSING INFORMATION SYSTEMS. (3) Data processing systems. The design of actual information processing systems. Prerequisite: IS 341, 344. (Mg 345).

346 COMPUTER OPERATIONS MANAGEMENT. (3) Practical problems confronted by the computer operations manager. Organization control and scheduling functions. Environmental considerations. Prerequisite: IS 100 or equivalent. (Mg 346).

347 SURVEY OF DATA PROCESSING APPLICATIONS. (3) Data processing installations. Hardware and software. Current data processing problems. (Mg 347).

348 ASSEMBLY LANGUAGE. (3) Features of the IBM 360. Data representation, number systems, data movement, arithmetic, program control. Prerequisite: IS 100 or equivalent (CS 255).

Marketing (Mk)

Staff: DR. TREBBI, chairman; MR. CARUSO, MR. HAYES, DR. KUMPF, MR. SCHERTZER, DR. VAN KIRK, DR. WEBB

Assisted by: MR. BROWN, MR. HOLT, MR. HULL, MR. KERCHEVAL, MR. LANDSMAN, MR. LOHAUS, MR. McMULLIN, MR. PITCAIRN, MR. STEINER, MR. THOMAS

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.

Marketing

212 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.

219 BROADCAST STATION SALES. (3) (CA 219)

220 INTERNATIONAL MARKETING. (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare.

230 RETAILING MANAGEMENT. (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study.

235 DISTRIBUTION CHANNELS. (3) Macro-marketing institutions and channels. Time, place, and behavioral concepts in the channels of distribution.

245 MARKETING COMMUNICATIONS. (3) Fundamental behavioral and communication concepts used in developing effective communications programs.

250 PROMOTION—ADVERTISING. (3) Creative and institutional aspects of advertising and their relationship to market and product attributes. Effects of legal and social environment.

261 PROMOTION—SELLING. (3) Dynamics of selling and techniques of persuasive leadership. Sales management. Selection, training, compensation, and analysis of sales force activities.

270 UNDERSTANDING THE CONSUMER. (3) Marketing strategy implications of consumer behavior. Anthropology, economics, psychology, sociology, and the consumer.

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.


295 TUTORIAL COURSE. (2-3) Research, meetings and attendance of scheduled lectures as determined by the advisor. Prerequisite: Permission of the chairman.

299 MARKETING PLANNING AND ANALYSIS. (3) Application of marketing principles to case analysis. Prerequisite: Nine semester hours of upper division courses in marketing.

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) (MG 331).

Institute for Business and Community Services

Staff: DR. GEEDEING, Institute Director; MRS. RASTANI, Assistant Director; FR. DOMZALL, CF, Religious Program Director; MS. GLYNN and MRS. GROOFS, Program Coordinators.

Assisted by: members of the Xavier University faculty and resource personnel from the Cincinnati area.

Numerous short-term, non-credit seminars, workshops, and Institutes are offered by the University through the Institute.
Program
College of Continuing Education
Real Estate (Re)

Staff: DR. HELMES, chairman; MR. DUFFY, program coordinator; MR. BREED, MR. SHEPARDSON, MR. CAROSELLI


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, director; DR. RICHARDSON, assistant director; DR. ENDRES, MR. DALLMAN, MR. ENSIGN, MR. FARMER, MR. HARRINGTON, MR. O’CONNOR, MR. OVERBERG, MR. PALMER, MR. PRATT

Assisted by: DR. BERG, MR. SETA

(*) Courses so designated are approved for curricular requirements in social studies subject to limitations as indicated.

Upper Division Courses

266 CRIME AND PERSONALITY. (3) (Ps 266, Ed 266).
276 PSYCHOLOGY OF DELINQUENCY. (2) (Ps 276, Ed 276).

Graduate Courses

501 FOUNDATIONS OF CORRECTIONS. (3) Theories of criminology, current philosophies, and methodology.
503 INSTITUTIONAL CORRECTIONS. (3) Treatment methods and custodial care in correctional institutions for juveniles and adults.
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.
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.
518 BLACK PERSPECTIVES IN CORRECTIONS: A SEMINAR. (2) Effective approaches concerning the “black” issues in corrections.
520 SOCIOLOGY OF CRIME AND DELINQUENCY. (3) Social factors related to crime and delinquency. Etiological theories and their implications for prevention and correction.
521 JUVENILE DELINQUENCY AND THE JUVENILE COURT. (2) Theoretical and practical applications related to delinquency and the juvenile court.
533 COUNSELING IN CORRECTIONS. (2) Viable treatment modalities in Corrections.
534 RATIONAL SELF COUNSELING. (1) Training in self-help techniques utilizing the Rational Behavioral Therapy counseling approach to solving emotional problems.
537 ADVANCED CORRECTIONAL COUNSELING. (2) Effective therapeutic approaches in counseling offenders.
540 CORRECTIONAL ADMINISTRATION. (2) Management problems in corrections. Budget, personnel, public relations. Prerequisite: Cr 501.
541 DIVERSION AND THE CRIMINAL JUSTICE SYSTEM. (2) Implications of contemporary programs to minimize penetration in the criminal justice system.
Corrections

542 ROLE OF CORRECTIONAL ARCHITECTURE. (2) Structural, architectural, and security systems in correctional institutions.

543 AMERICAN PRISON TODAY. (2) Contemporary concepts in the American correctional movement.

544 CRIMES AGAINST THE ELDERLY. (2) Victimology and its impact on the Criminal Justice system and the related service agencies.

550 ALCOHOL AND CRIMINALITY. (2) Alcohol-abuse related to the public offender.

580 INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom). (2) Field observation, case analysis, special readings, or data evaluation. Taken concurrently with Cr 580.

590 INTERNSHIP IN CORRECTIONS. (Non-classroom). (2) Supervised on-the-job training. Three hundred hours. Placement in correctional setting. Final course in the program.

598 RESEARCH: CORRECTIONS. (2-3).

620 WORKSHOP: CHARACTER DISORDERS. (1) (Ps 620).

Hospital and Health Administration (HA)

Staff: PROF. ARLINGHAUS, director; DR. BOCKLET, MR. DAM, MRS. RUWE, DR. WEBB

Assisted by: MR. DARBY, MR. DOYLE, DR. GEEDING, MR. KLEKAMP, MR. MOSS, DR. PHILIPPS, MR. WILZ, DR. WRIGHT

Hospital Administration


611 PSYCHOLOGY OF EXECUTIVE BEHAVIOR. (3) Techniques for complicated human relations situations. Psychological (behavioral) and sociological readings and their application to actual situations.

612 HOSPITAL LEGAL ASPECTS. (3) Law as it relates to hospitals. Conflict of interest, contracts, consent, liability, Insurance. Labor law.


620 MEDICAL CARE ORGANIZATION. (3) Analysis of and exposure to various aspects of the health community outside the hospital. Focus on medical sociology, and delivery mechanisms, need, supply and resources of health services and quality of care.

621 CURRENT TRENDS IN MEDICINE. (3) Trends in the practices of the healing professions. Concepts of health and disease.

622 RESEARCH: STATISTICS & METHODS. (3) Statistical concepts and research methods necessary to the writing and use of research papers in the health administration field. Emphasis on preparation for Program thesis requirement.

630 QUANTITATIVE TECHNIQUES FOR HEALTH ADMINISTRATORS. (3) Mathematical and statistical techniques. Management engineering. Computerized Information systems as tools for the health administrator's use.


632 HEALTH INFORMATION SYSTEMS. (3) Analysis and design of information systems for hospitals, health planning agencies, and other health organizations. Feasibility studies. Implementation. System operation and maintenance. Management information systems and clinical support systems.


650 HEALTH CARE PLANNING & DEVELOPMENT. (3) Examines the program and service options available to health care institutions as well as constraints imposed upon them, with special emphasis upon the rationale, function, and structure of governmental planning, regulations, and control.

660 HOSPITAL HUMAN RESOURCES MANAGEMENT. (3) Personnel administration policies, procedures, and techniques. Management's role in labor relations.

699 MASTER'S THESIS. (3)
The Graduate School

Administrative Officers

DAVID C. FLASPOHLER, Ph.D.
Acting Dean

THOMAS H. HANNA, Ed.D.
Associate Dean

JAMES P. GAFFNEY, Ed.D.
Assistant Dean

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

JOHN C. ROTHWELL, M.B.A.
Assistant to the Dean

The Graduate Council

DAVID C. FLASPOHLER, Ph.D.
(Chairman) Acting Dean, Graduate School

EDWARD J. ARLINGHAUS, M.B.A.
Director, Hospital and Health Administration Program

VYTAUTAS J. BIELIAUSKAS, Ph.D.
Chairman, Department of Psychology

HARVEY A. DUBE, Ph.D.
Chairman, Department of Chemistry

PAUL H. HAHN, M.Ed.
Director, Corrections Program

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

THOMAS H. HANNA, Ed.D.
Associate Dean, Graduate School

ERNEST FONTANA, Ph.D.
Chairman, Department of English

ROMAN J. SCHWEIKERT, Ed.D.
Chairman, Department of Education

PAUL L. SIMON, Ph.D.
Chairman, Department of History

JOHN B. VIGLE, M.S.L.S.
Director of the University Library
Graduate School

GENERAL POLICIES

The policies listed below affect all graduate students. Some degree programs do have special policies which are specified in individual program descriptions.

Admission and Probation Committee

The Committee consists of the Chairman of the Department which the student seeks to enter, the Dean of the Graduate School, and the Associate Dean.

Scope and General Requirements

The Graduate School opened in 1946 under the direction of Dr. Raymond F. McCoy. Its first was added. These degree programs are offered: the Master of Arts in English, history, psychology, of Education; the Master of Business Administration; and the Master of Hospital and Health Administration. The Graduate School has always been coeducational.

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. Students not in degree status are technically classified as special students until candidacy and 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 but without regard for degree requirements.

Academic Calendar

The Graduate School Academic Calendar is integrated with the total University Calendar, which may be found at the front of this catalogue.

Admission

Application for admission to graduate studies is made in form. Application forms can be obtained upon request. Applications should be followed promptly by a transcript of the applicant's credits.

Students electing graduate work leading to a master's degree must present evidence of each course in which credit was obtained. Others may be registered conditionally.

A graduate standing until he has successfully completed at least six hours of graduate work with the colleges and/or departments within the University do not accept students from regionally non-accredited institutions

Since graduate work is work done under direction, the chairman of the department of the department, and the chairman or one appointed by him will be the student's advisor throughout the semester. All students must continue in the department in which they wish to complete their master's degree.

Notification of acceptance of registration is sent to each applicant as soon as possible after the acceptance. The Dean of the Graduate School will deny graduate program is judged inadequate for advanced academic or professional study.

Graduate requirements for the bachelor's degree may, in their last semester, register for a graduate degree.

Official acceptance for graduate study is good for a two-year period from the time of acceptance. If a student does not honor his acceptance within this period of time, his application and documents are destroyed unless he requests that the documents be returned or sent to another university.

Any falsification of information on the application, transcripts, or recommendations (where required) or test scores will be sufficient cause for disqualification for admission or dismissal if admitted. All tuition and fees paid and graduate credit earned is forfeited under such dismissal.

Students transferring from another university must be in good standing at that university or they will not be admitted to Xavier. Evidence of good standing must be produced upon request.

Graduate School

Xavier University is non-discriminatory on the bases of age, sex, race, color, religion, handicap, national, or ethnic origin.

Admission—International Students

International students must apply on special application forms available through the Graduate Office. Students 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 spring 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 applicant or 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 regulations, requirements, and conditions 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.

Full-time Course Load

A full-time graduate course load per semester consists of twelve semester hours minimum. This may be reduced in programs requiring extensive laboratory work upon agreement between the department chairmen concerned and the Graduate Dean. A minimum of five semester hours is considered full-time during a summer session for all programs.
Graduate School

Fully employed students normally may not take more than seven semester hours of course-work in the Fall and Spring semesters or four semester hours during regular summer sessions in which they are fully employed.

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 from one of the Deans. Ordinarily it will not be granted.

Intersession Courses; Tutorials; Special Study; Pass/Fail Coursework.

A maximum of six semester hours of intersession coursework or tutorials, special study, or pass/fail courses may be used toward a graduate degree, individually or in combination.

Miller Analogies Test

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 bring with them an official report of their scores. Scores will aid the faculty in the guidance of the student. M.B.A. and M.H.A. applicants will be required to take the Graduate Management Admission Test, or to have official test scores forwarded to the Graduate School.

Candidacy

Candidacy shall begin when, after the student's completion of six hours of graduate work, his application shall have been passed by the Graduate Council. Every student must make such a candidacy application after completing six hours of work at Xavier. Those thought unfit will be advised to discontinue their course.

No more than five years may elapse between candidacy and completion of work for the degree.

Candidates for the master's degree who fail to complete all requirements within five years after admission to candidacy must be re-admitted to candidacy by the Dean of the Graduate School before they can proceed. All work must be completed within seven years preceding the date upon which the degree is conferred.

A student who attends only summer sessions may be granted a graduate degree provided he is engaged in work related to his major subject.

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 master's programs—e.g., Psychology, Hospital and Health Administration, and Montessori Education.

Specific requirements of the Masters' programs are presented later in this section. Though the procedures and completing the steps required in his program, Requirements of the Graduate and/or Department chairman of the student's major department must be waived or an exception granted because a similar course has already been completed by the student.

The distribution of the course requirements must be approved by the chairman of the student's major department. At least one-half of the courses must be in that department. Candidates, their major department.

Character of the courses required is subject to the decision of the advisor. At least one-half of the courses required is subject to the decision of the advisor. At least one-half of the courses required is subject to the decision of the advisor. At least one-half of the courses required is subject to the decision of the advisor. At least one-half of the courses required is subject to the decision of the advisor. At least one-half of the courses required is subject to the decision of the advisor.

The thesis consists of the student's research in some problem of his major subject, and must at each stage be under the direction of the chairman of the department or of one appointed by him.

Before beginning work on the thesis, the student should secure from the Graduate Office the form, Approval of Thesis Project, and also the Instruction, Form and Mechanics for Writing Theses.

The student must submit three typed copies of his thesis after it has been formally approved, and pay the current fee for the binding of the library copy.

Application for Degree

All students planning to complete requirements for graduate degrees must complete application forms for the Graduate Office within the first month of their final semester of work or in the summer, during the first two weeks. When the degree is not obtained at the time specified on the application, the student must reapply for the new degree.

It is recommended that an appointment be made with the student's department chairman at the time the student registers for his final semester of work to make certain all degree requirements will have been met by the end of the semester.

*See page 211 for M.B.A. exceptions.
Graduate School

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.

Graduate Grading System

The following symbols are used in the evaluation of course work: A—indicative not only of high achievement, but also of an unusual degree of intellectual ability and initiative; B—or above average graduate credit; C—work of minimum or average attainment; S—satisfactory; D—inferior, no B quality in courses numbered 200 to 499, and of C quality in courses numbered 500 or higher. F—failure; U—unsatisfactory. To obtain credit graduate students must do work of A or B quality in courses numbered 200 to 499, and of C quality in courses numbered 500 or higher.

Student records and transcripts include all courses attempted including those in which a grade satisfactorily completed are not issued. Courses retaken and passed are not a basis for the removal of unacceptable grades originally received.

Clearance of Incompletes

Grades of I (Incomplete) must be cleared by a student within thirty days after the last day of the semester, unless the professor concerned specifies another date. After thirty days, the grade becomes a permanent I. No grade may be altered under any circumstances after five years from the completion date of the course.

Failing grades may not be removed from a permanent record under any circumstances.

Repetition of Courses

Courses completed in a student's undergraduate program may not be repeated for graduate credit.

Probation

One unsatisfactory grade (below B in courses in the 500-799-series, below C in courses in the 200-499-series) places a graduate student on probation; two such grades makes him ineligible to reenroll in a degree program.

Class Attendance

Reasonable attendance at all class meetings of courses for which a student has registered, except tutorial and special study courses, is expected of students as a condition for the granting of graduate Dean, and faculty members concerned is reason for denial of credit for a course and possible course failure.

Reactivation of Expired Degree Candidacy

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 two years of the date of reactivation.

Dismissal

The Graduate School reserves the right to dismiss from any graduate degree program any student whose quality of classwork is beneath the standard set by the Graduate Council 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.

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., or M.Ed. degree. The permission of the department chairman concerned and the approval of the Graduate Dean, assuming the credits are applicable to the student's degree objective, 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 are not acceptable for Advanced Standing.

As a matter of policy, the Graduate School does not enter coursework completed at other universities on its permanent records unless the coursework 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 his 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 taking an institute not available at Xavier.
3. When directed by one of the Deans for a specific purpose to take a course not available at Xavier.

Access to Graduate Students' 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. As a matter of policy, the Graduate School does not enter coursework completed at other universities on its permanent records unless the coursework applies toward a Xavier University advanced degree or pertains to certification recommended by the University.

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 taking an institute not available at Xavier.
3. When directed by one of the Deans for a specific purpose to take a course not available at Xavier.

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 or 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 education records without consent of the student to state officials where required by state law which was adopted prior to November 19, 1974, accrediting institutions, or to appropriate persons 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 recommendations given to the University on a confidential basis with reference to admission to graduate programs. Closed recommendations after December 31, 1974 where the student has signed a waiver of access are removed from a student's file before the student is permitted to review it. After review of the file, a record of the review is maintained within the file. A student may see his or her file only under supervision of one of the members of the 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 gives 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 to be sent to anyone but the student himself must be requested in writing by letter or by the Graduate School's form for transcript requests.

Health Service

Full-time graduate students may choose to avail themselves of the University's Student Health Service at the student fee of $15.00 per semester (fall and spring semesters only).

A student accident, sickness, and hospital insurance plan is available to full-time graduate students at a reasonable rate.
Graduate School

Housing Arrangements

Graduate students usually make their own arrangements for obtaining housing accommodations. Dormitory accommodations are available to a limited number of male and female graduate students each semester, and generally available to all single graduate students, male and female, during the summer sessions. Assistance in obtaining off-campus accommodations may be obtained by writing the Director of Student Housing, Office of the Dean of Students.

Campus Parking

A limited amount of parking is available to graduate students on campus. The Graduate School cannot guarantee a parking place as a condition of enrollment. Parking stickers are required on cars parked on campus, and a parking fee is charged during the fall and spring semesters.

Facilities for Study and Research

Computer Center: The University Computer Center operates an I.B.M. 360/50 type computer and Time Sharing (Digital Equipment Company PDP 11/45) services which are available to all faculty and students of the University for either 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 almost 220,000 volumes of books, periodicals and microform which were selected to serve as well as 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 college research libraries to Xavier University students. A fuller description of the library is on page 14.

Numerous departments of the University maintain departmental collections within their own buildings. Graduate students wishing to keep books in the library may obtain a locker on an assigned basis.

Center for Human Development: The Center for Human Development is engaged in research studies in the areas of guidance, reading, improvement, and Montessori education as well as other areas within the Departments of Psychology and of Education.

Veterans' Education

The Graduate School has been approved by the Veterans' Administration for educational training under all existing public laws. Requests for information should be addressed to The Director, Veterans' Education.

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 counseling.

Scholarships: Graduate School

Xavier University annually offers scholarships in all departments in which graduate programs are offered. These departments are business administration, chemistry, economics, education, English, history-political science, mathematics, and psychology. 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 real academic excellence in their undergraduate work. Scholarships cover tuition only and are valued at $2,010-$2,412 each.

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 meet fully departmental requirements as outlined in the University Catalogue and who have applied for admission to the Graduate School will be considered.

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 of application if this has not previously been done.

4. 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 Miller Analogies Test must be taken and the score provided to the Graduate Office. M.B.A. applicants must take the GMAT.

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

The Walter A. and George McDonald Fund, established in honor of Mr. and Mrs. Andrew J. McDonald, provides income from a gift of $50,000 for a graduate assistant in the Department of Chemistry.

Graduate assistantships are awarded annually in the Departments of Chemistry and Psychology. Assistantships 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. A complete transcript of the applicant’s undergraduate record and letters of recommendation from one or two of the applicant’s undergraduate professors should be sent directly to the chairman of the department at Xavier University.

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.

Tuition and Fees*

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation</td>
<td>$10.00</td>
</tr>
<tr>
<td>Matriculation: Cincinnati (payable once)</td>
<td>$15.00</td>
</tr>
<tr>
<td>Matriculation: Columbus and Lexington (payable once)</td>
<td>$71.00</td>
</tr>
<tr>
<td>Matriculation: Business Administration, Columbus, Ohio</td>
<td>$60.00</td>
</tr>
<tr>
<td>Matriculation: Business Administration, Lexington, Ky.</td>
<td>$65.00</td>
</tr>
<tr>
<td>Miller Analogies Test (Taken in group sessions)</td>
<td>$10.00</td>
</tr>
<tr>
<td>Miller Analogies Test (Administered individually)</td>
<td>$12.50</td>
</tr>
<tr>
<td>Graduate Management Admission Test</td>
<td>$30.00</td>
</tr>
<tr>
<td>Graduation fee</td>
<td>$8.00</td>
</tr>
<tr>
<td>Binding of thesis fee (Library copy)</td>
<td>$2.00</td>
</tr>
<tr>
<td>Laboratory science fee (per course per semester for biology, chemistry, physics, Experimental Psychology, and Physiological Psychology)</td>
<td>$20.00</td>
</tr>
<tr>
<td>Laboratory science deposit (per course per semester—partially refundable)</td>
<td>$10.00</td>
</tr>
<tr>
<td>Laboratory materials deposit for physical science thesis</td>
<td>$75.00</td>
</tr>
<tr>
<td>Parking Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Part time student</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

*Tuition and fees are for the 1978-79 academic year. Changes are made in these rates from time-to-time.
Graduate School

Contingent Fees*

Duplicate Transcript ................................................................. $ 2.00
Special Examination ...................................................................... 15.00

Financial arrangements should be settled on the day of registration. Attendance at classes will not be permitted until financial arrangements have been made with the Bursar. A time payment plan is available. Consult the Bursar.

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 50% 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 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 preceeding 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.

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 slip 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.

The date on which the withdrawal slip 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. Cessing to attend class or informing a professor of the intent to withdraw does not constitute official withdrawal.

If a student ceases to attend classes without officially withdrawing, the instructor may award a grade of I (Incomplete). Official withdrawal is indicated by a grade of W.

Refunds

The following is the official interpretation of University refund policy as applied to students of the Graduate School:

1. A refund of tuition (fees are not refundable) may be claimed in the case of withdrawal or dismissal in the first weeks of a semester according to the schedule detailed below.

2. Computation of refunds will be based upon the official date of withdrawal, not the last class attended. A claim for a tuition refund will not be honored by the University after one year has lapsed dating from 35 days after the beginning of each course in question.

3. The official date of withdrawal is the date upon which the student notifies the Graduate Office of his withdrawal in writing.

4. Withdrawal of a student who has been permitted to make only a partial payment at registration is handled precisely as it would have been had he completed payment; thus he may owe a balance even though he has withdrawn.

5. 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 to 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.

*Expenses listed are for the 1978-79 academic year. Changes are made in these rates from time-to-time.

6. A student is subject to the schedule of refunds even though he does not complete the course or courses for which he is registered or even though he does not attend any of the classes in those courses. Passing or failing the course does not alter the financial obligation.

Schedule of Refunds, Academic Year

<table>
<thead>
<tr>
<th>Refund Schedule</th>
<th>Refund Percentage</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 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>

Refunds, Summer Sessions and Inter sessions

For tuition refund schedules for summer sessions and inter sessions, consult the University Summer Bulletin.

Payment of Parking Tickets

Parking tickets for violations of "No Parking" zones, reserved lots, or for disregarding the instructions of a parking attendant or security guard, will be issued. A parking ticket for parking without a valid parking permit will be issued with a fine of $10.00 attached. All fines must be paid at the Bursar's Office. Parking fines not paid within five days after their issuance, or not appealed within five days after their issuance, will be charged to the student's account. All outstanding student accounts must be paid in full before registration will be permitted for a new semester or session.

The Master of Science

The final goal of the M.A. and the M.S. programs is that the student may come to possess a specialized knowledge of his 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 him these characteristics:

1. An understanding of the relations of his 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 is required. A reading knowledge of a foreign language or approved substitute. This requirement does not apply to all degrees. See specific degree program for information.

2. 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 study within the student's chosen field, an acceptable thesis of a research character for study within the student's chosen field, a substantial research paper specifically accepted by the department to satisfy this requirement.

3. 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.

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 chairman 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.

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 3.00 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 including Hs 501: Historical Methodology.
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—PHILOSOPHY

The Master's program aims at a high degree of the habit of philosophy, a penetrating grasp of systematic philosophy, an ability to formulate and analyze a problem and find a solution, a knowledge of the major philosophical positions propounded in the West, and the capacity to evaluate critically the thought of other philosophers.

Xavier offers this degree in a consortium arrangement with The Athenaeum of Ohio's accredited M.A. program in philosophy. Xavier graduate offerings are limited to summer sessions. During the academic year, certain suitable undergraduate courses may be taken and applied to the graduate program; or course offerings may be elected at The Athenaeum of Ohio (with previous program approval by Xavier's Chairman, Department of Philosophy) and transferred to the Xavier degree program. The courses are not given every year.

The minimum requirements for the degree of Master of Arts in philosophy are:
1. Completion of twenty-four hours of work at the 500-799 level; or a minimum of twelve hours of such courses and twelve hours at the 300-499 level (or, by exception, at the 200-299 level). These must include surveys in three periods of the history of philosophy (Pl 250, 280, 270) if these have not been previously had.
2. A reading knowledge of French or German with the possibility of an approved substitute if thesis work demands it.
4. A comprehensive examination on course work and the thesis.
Graduate School
Admission

1. Bachelor's degree from an accredited college or university.
2. A 2.8 overall undergraduate average and a 3.0 average in all psychology courses.
3. A minimum of eighteen undergraduate credit hours in psychology which should include experimental psychology (with laboratory), introductory statistics, psychology of personality, and/or abnormal psychology. Courses in biological science and college mathematics are recommended as a preparation for graduate studies. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
5. Candidates for the Master of Arts in psychology must have personality and character traits which are in agreement with ethical standards of psychology.

Students must complete the following procedures in advance of registration:
1. 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.
2. Submit transcript of previous college work.
3. Submit to the Graduate Office report of M.A.T. score or arrange with the Department of Psychology for examination.
4. Arrange with the Psychology Department for a personal interview. (The interviewing of students from considerable distance may be delegated to a local psychologist by special arrangement.)
5. The Dean of the Graduate School will notify the applicant of official acceptance.

Part-time students may be admitted as special students for their first semester of work prior to M.A.T. results and personal interview. All admission procedures, however, must have been completed prior to their second registration.

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 660, Chemical Separations, and Ch 670, Chemical Characterization of Chemical Compounds.

Graduate School

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. Among the courses, other than those listed above, which are offered regularly are the following:

320 INTRODUCTION TO RADIOCHEMISTRY. Two or three credit hours.
340 TOPICS IN ORGANIC CHEMISTRY. Two credit hours.
370 BIOCHEMISTRY. Three credit hours.
535 INTRODUCTION TO VIBRATIONAL SPECTROSCOPY. Two credit hours.
555 HETEROCYCLIC ORGANIC CHEMISTRY. Two credit hours.
670 NEWER METHODS OF SYNTHETIC ORGANIC CHEMISTRY. Two credit hours.
695 ORGANOMETALLIC CHEMISTRY. Two credit hours.
640 MEDICINAL CHEMISTRY. Two credit hours.
690 SPECIAL TOPICS. Two credit hours each semester.
692 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 is a professional degree designed to meet the needs of workers, both institutional and non-institutional, already in the field of corrections, as well as for those who are preparing to enter careers in corrections.
Graduate School

Accordingly, this degree will be awarded to candidates who have demonstrated a capacity for understanding the dynamics of criminal and delinquent behavior, the nature and scope of crime and delinquency complex in contemporary society, and the current philosophy, work designed to impart this knowledge, establish desirable attitudes, and sharpen the necessary graduate degree from an accredited college or university acceptable to the Admissions Commit-

A minimum of thirty hours is required for the degree of Master of Science in corrections. These will be distributed as follows:

- **Psychology of Delinquency.** Two credit hours.
- **Legal Aspects of Corrections.** Two credit hours.
- **Correctional Administration.** Two credit hours.
- **Individual Research and Directed Study in Corrections.** (Non-classroom.) Two credit hours.
- **Internship in Corrections.** (Non-classroom.) Two credit hours.

The following courses are available as electives to fill out the final eight hours of the M.S. in corrections program:

- **Seminar: Black Perspectives in Corrections.** Two credit hours.
- **Juvenile Delinquency and the Juvenile Court.** Two credit hours.
- **Counseling in Corrections.** Two credit hours.
- **Rational Self Counseling.** Two credit hours.
- **Advanced Correctional Counseling.** Two credit hours.
- **Diversions and the Criminal Justice System.** Two credit hours.
- **Role of Correctional Architecture.** Two semester hours.
- **American Prisons Today.** Two credit hours.
- **Crimes Against the Elderly.** Two credit hours.
- **Alcohol and Criminality.** Two credit hours.
- **Workshop: Character Disorders.** One credit hour.
- **Guiding the Emotionally Disturbed Child.** Two credit hours.
- **Educating the Disturbed Child.** Two credit hours.
- **Educational Research.** Three credit hours.
- **Statistical Techniques.** Three credit hours.
- **Psychological and Achievement Tests.** Two credit hours.
- **Child Psychology.** Two credit hours.
- **Adolescent Psychology.** Two credit hours.
- **Differential Psychology.** Two credit hours.
- **Social Psychology.** Two credit hours.
- **Social Dynamics of Communication.** Three credit hours.

\[Ps^257\] **Dynamic Psychology.** Two credit hours.
\[Ps^277\] **Abnormal Psychology.** Two credit hours.
\[Ps^433\] **Theories of Personality I.** Two credit hours.
\[Ps^454\] **Theories of Personality II.** Two credit hours.
\[Ps^533\] **Counseling Principles and Techniques.** Two credit hours.
\[Ps^647\] **Clinical Studies: The Emotionally Disturbed Child.** Two credit hours.

**THE MASTER OF EDUCATION**

The Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators 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 him 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 assure 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 assure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs each of four general survey courses designed, in their whole, to provide integrated coverage of the broad field of education. These courses are:

- **Philosophy of Education.** Three credit hours.
- **Advanced Educational Psychology.** Three credit hours.
- **Educational Administration.** Three credit hours.
- **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:

- Administration, guidance, elementary education, secondary education, physical education, the learning disabled child, Montessori education, reading specialist, instructional service specialist, educational media specialist, school social work, biology, business, chemistry, classics, communication arts, English, history-political science, mathematics, French, German, Spanish, philosophy, physics, theology, music, and humanities.
Graduate School

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 Montessori education, reading specialist, the learning disabled child, educational media, personnel training and development, and school social work.

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.

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 coursework 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 MBA program on one of the following 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 (four credit hours); BA 502: Introduction to Quantitative Methods (two credit hours); BA 503: Basic Accounting (four credit hours); BA 505: Basic Marketing (two credit hours); BA 506: Basic Statistics (two credit hours); BA 507: Basic Finance (two credit hours) or their equivalents, as appropriate. Prerequisite courses are generally open only to graduate students with undergraduate deficiencies.
3. Undergraduate non-business degree with at least thirty hours of business and economics subjects. Deficiencies may be removed by an extended graduate program including BA 501, 502, 503, 505, 506, and 507 (sixteen graduate hours as shown) and two additional hours as advised in individual cases.

All M.B.A. degree applicants must take the Graduate Management Admission Test. Applicants should arrange to take the test prior to admission. Test application forms may be obtained from Xavier's Graduate School 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, candidates must include in their programs each of five general survey courses designed in their whole to provide integrated coverage of the broad business field. These courses are:

* Certain concentrations may require more than 12 semester hours, particularly where state certification requirements are involved.
Graduate School

FUNCTIONAL CORE (required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA 630</td>
<td>Quantitative Techniques for Hospital Administrators</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 640</td>
<td>Hospital Financial Management I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 641</td>
<td>Hospital Financial Management II</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 650</td>
<td>Health Care Planning &amp; Development</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 660</td>
<td>Hospital Human Resources Management</td>
<td>3 cr. hrs.</td>
</tr>
</tbody>
</table>

FUNCTIONAL TRACKS (required)

- Six hours of course work will be taken in one of the following functional core areas:
  - Quantitative Methods
  - Financial Management
  - Health Care Planning & Development
  - Human Resources Management

ELECTIVES:

Candidates who can demonstrate mastery of the content in any of the required courses are encouraged to substitute elective work.

Elective work is available in the following areas:

- Advanced Statistics & Quantitative Methods
- Comprehensive Health Planning
- Economics and Finance
- Industrial Relations
- Mental & Geriatric Health Care
- Political Science & Government
- Social Psychology
- Sociology

Administrative Residency Year (12 cr. hrs. required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA 686</td>
<td>Administrative Residency (12 months)</td>
<td>9 cr. hrs.</td>
</tr>
<tr>
<td>HA 699</td>
<td>Master's Thesis</td>
<td>3 cr. hrs.</td>
</tr>
</tbody>
</table>

The degree of Master of Hospital and Health Administration will be awarded only to candidates who have passed a written comprehensive examination on the four functional core areas.

A minimum of forty-two graduate hours plus the completion of the administrative residency and master's thesis are required for the degree of Master of Hospital and Health Administration.

Students may be considered for admission to graduate degree work in Hospital Administration on the following two bases:

1. Have received an undergraduate degree from an accredited institution.
2. Have completed three (3) credit hours in accounting, three (3) credit hours in economics, three (3) credit hours in finance, and three (3) credit hours in management. This prerequisite work must be taken exclusive of the forty-two semester hours required for the degree.

Before receiving the degree of Master of Hospital and Health Administration, all students must complete a calendar year of administrative residency in a hospital, unless specifically modified in writing by the Director of 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 residency is performed. The student will register for nine credit hours and pay the normal tuition charge.

The candidate must write a Master's Thesis and have it accepted by the faculty of the Graduate Program in Hospital and Health Administration as partial fulfillment of the requirement of the degree. The student will register for three credit hours and pay the normal tuition charge.

There is also a Health Administrative Forum requirement which includes an outside reading program, field trips, and a seminar discussion series of current hospital and health care issues and problems.

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.
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