1980

1980-1982 Xavier University College of Arts and Sciences, College of Business Administration, College of Continuing Education, Graduate School Course Catalog

Xavier University, Cincinnati, OH

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Director of Alumni Relations

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Dean of Admissions

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The Bursar

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Director of Public Information

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Director of Scholars' Program

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Chairman of Student Health Service

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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' Educational Benefits

Cover design: Lawrence M. Miller and ART WORKS
Xavier University
Coeducational
Cincinnati's Jesuit University

Catalogue 1980-1982

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

Victory Parkway, Cincinnati, Ohio (513) 745-3000
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UNIVERSITY CALENDAR 1980-1981

Fall Semester

Aug. 18, Monday through Aug. 23, Saturday
Mail registration, Graduate School.

Aug. 27, Wednesday
Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M.

Aug. 28, Thursday
Registration, local seniors, 8:00-11:30 A.M.
Registration, local juniors, 1:00-3:30 P.M.
Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M.
Registration, Graduate School, 8:30 A.M.-8:00 P.M.

Aug. 29, Friday
Registration, local sophomores, 9:00-11:30 A.M.
Registration, freshmen as assigned, 1:00-3:30 P.M.
Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M.
Registration, Graduate School, 8:30 A.M.-8:00 P.M.

Aug. 30, Saturday
Registration, College of Continuing Education, 12:00-3:00 P.M.
Registration, Graduate School, 8:00 A.M.-2:00 P.M.

Sept. 2, Tuesday
Registration, out-of-town sophomores, juniors, and seniors, 8:30-12:00 Noon; 3:30-5:00 P.M. Freshmen only, as assigned, 1:00-3:30 P.M.
Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M.
Registration, Graduate School, 8:30 A.M.-8:00 P.M.

Sept. 3, Wednesday
Instruction begins, all divisions.

Sept. 11, Thursday
Last day for late registration or changes in registration in the undergraduate colleges.

Sept. 14, Sunday
Mass of the Holy Spirit, 5:00 P.M.

Oct. 13, Monday
Autumn Holiday, day divisions. Evening and Graduate classes meet.

Oct. 16, Saturday
Graduate School Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.

Oct. 27, Monday
Mid-semester grades for undergraduate students—day & evening—due in respective offices by 5:00 P.M.

Nov. 1, Saturday
All Saints Day. (Not a University holiday.)

Nov. 17, Monday
Final date for withdrawal from courses without failure, undergraduate colleges only.

Nov. 26, Wednesday
Thanksgiving Vacation begins—holiday all divisions.

Dec. 1, Monday
Classes resume, all divisions, 8:30 A.M.

Dec. 1, Monday through Dec. 12, Friday
Preregistration, undergraduate colleges, day division.

Dec. 3, Wednesday through Dec. 12, Friday
Early registration, College of Continuing Education students.

Dec. 3, Wednesday through Dec. 9, Tuesday
Preregistration, Graduate School.

Dec. 5, Friday
Final date for submission of theses for December graduates, undergraduate colleges.

Dec. 6, Saturday
Senior Comprehensive Exams, undergraduate colleges, M.Ed. Comprehensive Examination, 1:30-4:30 P.M.

Dec. 8, Monday
Feast of the Immaculate Conception. (Not a University holiday.)
<table>
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<tr>
<th>Date Range</th>
<th>Event</th>
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<tbody>
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<td>Dec. 15, Monday through Dec. 20, Saturday</td>
<td>Semester Examinations, all divisions.</td>
</tr>
<tr>
<td>Dec. 20, Saturday</td>
<td>Christmas Vacation begins after last class. End of Fall Semester, all divisions.</td>
</tr>
</tbody>
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### Spring Semester 1981

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 2, Friday through Jan. 6, Tuesday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>Jan. 9, Friday</td>
<td>Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-6:00 P.M.</td>
</tr>
<tr>
<td>Jan. 10, Saturday</td>
<td>Registration, College of Continuing Education, 12:00-3:00 P.M. Registration, Graduate School, 9:00 A.M.-2:00 P.M.</td>
</tr>
<tr>
<td>Jan. 12, 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, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 13, 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, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 15, Thursday</td>
<td>Instruction begins, all divisions.</td>
</tr>
<tr>
<td>Jan. 23, Friday</td>
<td>Last day for late registration or changes in registration, day undergraduate colleges.</td>
</tr>
<tr>
<td>Mar. 9, Monday</td>
<td>Mid-semester grades for undergraduate students—day &amp; 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>
</tr>
<tr>
<td>Mar. 9, Monday through Mar. 13, Friday</td>
<td>Spring Vacation, all divisions.</td>
</tr>
<tr>
<td>Mar. 14, Saturday</td>
<td>All Saturday classes meet.</td>
</tr>
<tr>
<td>Mar. 21, Saturday</td>
<td>Graduate School Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.</td>
</tr>
<tr>
<td>Apr. 2, Thursday through Apr. 15, Wednesday</td>
<td>Preregistration, day undergraduate colleges. Early registration, College of Continuing Education students.</td>
</tr>
<tr>
<td>Apr. 6, Monday</td>
<td>Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
</tr>
<tr>
<td>Apr. 13, Monday</td>
<td>Honors Convocation, 1:30 P.M.</td>
</tr>
<tr>
<td>Apr. 16, Thursday</td>
<td>Easter Vacation begins, holiday, all divisions.</td>
</tr>
<tr>
<td>Apr. 20, Monday</td>
<td>Holiday, undergraduate divisions. Graduate level courses resume 4:00 P.M.</td>
</tr>
<tr>
<td>Apr. 21, Tuesday</td>
<td>Classes resume, undergraduate divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>Apr. 23, Thursday through Apr. 29, Wednesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
<tr>
<td>Apr. 24, Friday</td>
<td>Final date for submission of senior theses, May graduates.</td>
</tr>
<tr>
<td>Apr. 25, Saturday</td>
<td>Senior Comprehensive Examinations. M.Ed. Comprehensive Examination, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>May 1, Friday through</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
</tr>
<tr>
<td>May 7, Thursday</td>
<td></td>
</tr>
<tr>
<td>May 4, Monday</td>
<td>Semester Examinations, day undergraduate colleges.</td>
</tr>
<tr>
<td>through May 8, Friday</td>
<td></td>
</tr>
<tr>
<td>May 8, Friday</td>
<td>End of Spring Semester after last class, all divisions.</td>
</tr>
<tr>
<td>May 18, Saturday</td>
<td>Commencement Exercises, all undergraduate colleges.</td>
</tr>
<tr>
<td>May 18, Monday</td>
<td>Commencement Exercises, Graduate School, 8:30 P.M.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Sessions 1981</strong></td>
<td></td>
</tr>
<tr>
<td>June 8, Monday through</td>
<td>See Summer School bulletin for details.</td>
</tr>
<tr>
<td>August 21, Friday</td>
<td></td>
</tr>
</tbody>
</table>
**UNIVERSITY CALENDAR 1981-1982**

**Fall Semester**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 17, Monday through Aug. 22, Saturday</td>
<td>Mail registration, Graduate School.</td>
</tr>
<tr>
<td>Aug. 25, Wednesday</td>
<td>Registration, College of Continuing Education, 12:00-8:00 P.M.</td>
</tr>
<tr>
<td>Aug. 27, Thursday</td>
<td>Registration, local seniors, 9:00-11:30 A.M.; local juniors, 1:00-3:30 P.M.; College of Continuing Education, 12:00-4:00 P.M.; Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Aug. 28, Friday</td>
<td>Registration, local sophomores, 9:00-11:30 A.M.; freshmen, 1:00-3:30 P.M.; College of Continuing Education, 12:00-4:00 P.M.; Graduate School, 8:30 A.M.-6:00 P.M.</td>
</tr>
<tr>
<td>Aug. 29, Saturday</td>
<td>Registration, Graduate School, 9:00 A.M.-2:00 P.M.; College of Continuing Education, 12:00-3:00 P.M.</td>
</tr>
<tr>
<td>Sept. 1, Tuesday</td>
<td>Registration, out-of-town sophomores, juniors, and seniors, 8:30-12:00 Noon; freshmen, 1:00-3:30 P.M.; College of Continuing Education, 12:00-4:00 P.M.; Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Sept. 2, Wednesday</td>
<td>Instruction begins, all divisions.</td>
</tr>
<tr>
<td>Sept. 7, Monday</td>
<td>Labor Day, holiday, all divisions.</td>
</tr>
<tr>
<td>Sept. 10, Thursday</td>
<td>Last day for late registration or changes in registration in the undergraduate day colleges.</td>
</tr>
<tr>
<td>Sept. 13, Sunday</td>
<td>Mass of the Holy Spirit, 5:00 P.M.</td>
</tr>
<tr>
<td>Oct. 17, Saturday</td>
<td>Graduate School Foreign Language Examinations, and FORTRAN Examination 2:00 P.M.</td>
</tr>
<tr>
<td>Oct. 26, Monday</td>
<td>Mid-semester grades for undergraduate students—day &amp; evening—due in respective offices by 5:00 P.M.</td>
</tr>
<tr>
<td>Nov. 1, Sunday</td>
<td>All Saints Day. (Not a University holiday.)</td>
</tr>
<tr>
<td>Nov. 16, Monday</td>
<td>Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
</tr>
<tr>
<td>Nov. 25, Wednesday</td>
<td>Thanksgiving Vacation begins—holiday, all divisions.</td>
</tr>
<tr>
<td>Nov. 30, Monday</td>
<td>Classes resume, all divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>Dec. 2, Wednesday through Dec. 11, Friday</td>
<td>Preregistration, undergraduate colleges, day division. Early registration, College of Continuing Education students.</td>
</tr>
<tr>
<td>Dec. 2, Wednesday through Dec. 8, Tuesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
<tr>
<td>Dec. 4, Friday</td>
<td>Final date for submission of theses for December graduates, undergraduate colleges.</td>
</tr>
<tr>
<td>Dec. 5, Saturday</td>
<td>Senior Comprehensive Exams, undergraduate colleges. M.Ed. Comprehensive Examinations, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>Dec. 8, Tuesday</td>
<td>Feast of the Immaculate Conception. (Not a University holiday.)</td>
</tr>
<tr>
<td>Dec. 14, Monday through Dec. 19, Saturday</td>
<td>Semester Examinations, all divisions.</td>
</tr>
</tbody>
</table>
Christmas Vacation begins after last class.
End of Fall Semester, all divisions.

### Spring Semester 1982

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 4, Monday through Jan. 6, Wednesday</td>
<td>Mall registration, Graduate School.</td>
</tr>
<tr>
<td>Jan. 8, Friday</td>
<td>Registration, College of Continuing Education, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-6:00 P.M.</td>
</tr>
<tr>
<td>Jan. 9, Saturday</td>
<td>Registration, College of Continuing Education, 12:00-3:00 P.M. Registration, Graduate School, 9:00 A.M.-2:00 P.M.</td>
</tr>
<tr>
<td>Jan. 11, 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, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 12, 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, 12:00-4:00 P.M.; 6:00-8:00 P.M. Registration, Graduate School, 8:30 A.M.-8:00 P.M.</td>
</tr>
<tr>
<td>Jan. 13, Wednesday</td>
<td>Registration, out-of-town undergraduates, 9:00-11:30 A.M.; 1:00-3:30 P.M.</td>
</tr>
<tr>
<td>Jan. 14, Thursday</td>
<td>Instruction begins, all divisions.</td>
</tr>
<tr>
<td>Jan. 22, Friday</td>
<td>Last day for late registration or changes in registration, day undergraduate colleges.</td>
</tr>
<tr>
<td>Mar. 8, Monday</td>
<td>Mid-semester grades for undergraduate students—day &amp; 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>
</tr>
<tr>
<td>Mar. 8, Monday through Mar. 12, Friday</td>
<td>Spring Vacation, all divisions.</td>
</tr>
<tr>
<td>Mar. 13, Saturday</td>
<td>All Saturday classes meet.</td>
</tr>
<tr>
<td>Mar. 20, Saturday</td>
<td>Graduate School Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.</td>
</tr>
<tr>
<td>Mar. 31, Wednesday through Apr. 16, Friday</td>
<td>Preregistration, day undergraduate colleges. Early registration, College of Continuing Education students.</td>
</tr>
<tr>
<td>Apr. 5, Monday</td>
<td>Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
</tr>
<tr>
<td>Apr. 8, Thursday</td>
<td>Easter Vacation begins, holiday, all divisions.</td>
</tr>
<tr>
<td>Apr. 12, Monday</td>
<td>Holiday, undergraduate divisions. Graduate level courses resume, 4:00 P.M.</td>
</tr>
<tr>
<td>Apr. 13, Tuesday</td>
<td>Classes resume, undergraduate divisions, 8:30 A.M.</td>
</tr>
<tr>
<td>Apr. 16, Friday</td>
<td>Final date for submission of senior theses, May graduates.</td>
</tr>
<tr>
<td>Apr. 17, Saturday</td>
<td>Senior Comprehensive Examinations.</td>
</tr>
<tr>
<td>Apr. 19, Monday</td>
<td>Honors Convocation, 1:30 P.M.</td>
</tr>
<tr>
<td>Apr. 20, Tuesday</td>
<td>Preregistration, Graduate School.</td>
</tr>
<tr>
<td>Apr. 26, Monday</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Apr. 24, Saturday</td>
<td>M.Ed. Comprehensive Examination, 1:30-4:30 P.M.</td>
</tr>
<tr>
<td>Apr. 30, Friday</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
</tr>
<tr>
<td>May 6, Thursday</td>
<td>Semester Examinations, day undergraduate colleges.</td>
</tr>
<tr>
<td>May 3, Monday through May 7, Friday</td>
<td>End of Spring Semester after last class, all divisions.</td>
</tr>
<tr>
<td>May 15, Saturday</td>
<td>Commencement Exercises, all undergraduate colleges.</td>
</tr>
<tr>
<td>May 17, Monday</td>
<td>Commencement Exercises, Graduate School, 8:30 P.M.</td>
</tr>
</tbody>
</table>

**Summer Sessions 1982**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 7, Monday through August 20, Friday</td>
<td>See Summer School bulletin for details.</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. 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 coeducational (1970) and implemented a host of new academic programs, facilities, community projects and students 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 judgements that has upheld the general study of the arts and sciences from the days of ancient Greece to our own day. This type of education, which helps the student become a generalist who can understand all the components of a problem and how each component relates to the whole, is most valuable in a society such as ours which is characterized by rapid change and explosive expansion of human knowledge.

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

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 courses of cultural and practical value. The college renders particular service to those who wish to carry college work toward a degree while working during the day and 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 degree and the Bachelor of General Studies (BGS). The BGS is a nonmajor degree program for the mature student of multi-interests and is limited to individuals 22 years of age or older.

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

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 Education for Health Services Administration.

Institutional Memberships

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

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.

Alter Hall

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

Bellarmine Chapel

(See Campus Ministry.)

University Center

The University Center 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, Musketeer Inn, Theatre, Games Room, and various meeting rooms.
The University

Library

The McDonald Memorial Library is a modern building with open stacks allowing users free access to most library materials. The collection numbers over 240,000 volumes of books and periodicals and over 175,000 pieces of microform. The library receives more than 1,700 periodical subscriptions. In addition over 2,000 recordings, both musical and spoken word, are available in a listening area. Special collections include Incunabula, rare books, manuscripts of literary and historical figures, and the University Archives.

Xavier students and faculty have access to other library collections in the Cincinnati area through the Greater Cincinnati Library Consortium. Holdings of member libraries total almost seven million volumes. In addition, interlibrary loan services allow access to titles not available locally.

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 4,000 spectators.

Student Housing

Brockman Hall, Husman Hall, Kuhlman Hall, Rattermann House, and Marion Residence are equipped to accommodate full-time students. Residence hall costs are listed under Fees. Students whose home address is located beyond a 35 mile radius from Xavier must live on campus. Exceptions to this regulation are granted by the Director of Residence Life. Cincinnati area students are invited to live in a residence hall as room is available.

Brockman Hall

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, bacteriology, and ecology.

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

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

The seismology 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 small research laborato-
ries. 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 Spectrograph, 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 Seton Schmidt Building, provides a complete range of services connected with the analysis and processing of data by means of computers. These services, available to all branches of the University, may be 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/1, 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, counseling, 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 traveling exhibitions. It was opened in the summer of 1966.

**Bookstore**

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

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

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 who live here initiate programs to complement dorm and academic life. The Piper Coffeehouse features both professional performers and campus talent. The Piper's weekly liturgies provide an opportunity for students to worship together and to experience a sense of community in an informal atmosphere.

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, Associate and Assistant 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 Alter Hall. The Foreign Student Adviser is available to all foreign students for matters of admission and other items pertaining to naturalization and immigration service. A faculty counselor is available to each student in his/her major area of concentration.

Campus Ministry

Bellarmine Chapel is the focal point of Xavier's campus ministry. Unique in its twin role of campus chapel and diocesan parish, it forms a diversified Christian community from both the campus and the surrounding neighborhood. Among the services sponsored by campus ministry are liturgical events, retreats, marriage preparation, speakers and special events, opportunities for volunteer work, and personal counseling. Some of the campus ministry staff reside in the residence halls to be more available to students.

Greater Cincinnati Consortium of Colleges and Universities

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

Office of Career Planning and Placement

Located on the ground floor of the University Center, the Office of Career Planning and Placement offers a wide range of services to Xavier 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. A small fee is charged for some medications.

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

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

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

Types of Records Maintained

Pursuant to the task of operating an educational institution, Xavier University maintains student files in the 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 and 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></td>
<td>Dr. David C. Flaspohler, Dean, College of Continuing Education</td>
</tr>
<tr>
<td>Housing</td>
<td>Mr. Robert F. Becker, Director of Residence Life</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>Mr. James F. Kelly, Director of Student Financial Aid</td>
</tr>
<tr>
<td>Discipline</td>
<td>Dr. Robert H. Helmes, Dean, College of Continuing Education</td>
</tr>
<tr>
<td></td>
<td>Dr. David C. Flaspohler, Dean, College of Continuing Education</td>
</tr>
<tr>
<td>Health</td>
<td>Mr. Roderick C. Shearer, Dean for Student Development</td>
</tr>
<tr>
<td>Psychological</td>
<td>Mrs. Ann T. Brown, R.N., Director, McGrath Health Center</td>
</tr>
<tr>
<td>Counseling</td>
<td>Dr. David Hellkamp, Director, Counseling Center</td>
</tr>
<tr>
<td>Athletic</td>
<td>Mr. Robert J. Stark, Director of Athletics</td>
</tr>
<tr>
<td>Placement</td>
<td>Mrs. Louise M. 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 parents and/or student have the right to present evidence that the challenged material is inaccurate, misleading, or in any way inappropriate for the particular file. Correction or deletion should be requested. All formal hearing decisions must be rendered in writing within a reasonable length of time.

Cost of Reproducing Files

Students have the right to request and receive copies of all materials contained in those files deemed accessible in Section 4. The cost of reproduction shall be borne by the requesting party and shall not exceed the cost to the institution. The present charge for a Xerox duplicate 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 members of athletic teams, dates of attendance, degrees awarded, special honors and awards, and the most recent previous educational agency or institution attended by the student.

Xavier University is required to publicly announce to the students that which Xavier will release as directory information. If a student does not wish "directory information" released by Xavier, that student must inform the appropriate offices about which information should not be released.
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 Program (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 a graduate of an accredited high school, and normally have a minimum average grade of "C". A minimum academic average of "B" is ordinarily required for admission to the pre-medical program. Applicants whose averages are lower may be considered and admitted at the discretion of the Committee on Admissions.

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

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

Math, 2 units
Science, 1 unit

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

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.

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

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

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.
Admission

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

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

Transfers Within the University
Students transferring from the College of Continuing Education into the Undergraduate Day Division need submit only an application form and an official transcript of their work in the College of Continuing Education to the Office of Admissions. Students transferring from the Undergraduate Day Division to the College of Continuing Education apply to the Dean, College of Continuing Education. If the application is approved, arrangements for the transfer will be made. Ordinarily transfers from within the University will not be approved for full-time students until after the student has completed two full semesters in the division from which he wishes to transfer.

Transfers should be arranged at least one month before the opening of a session.

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

Notification of Admission
The applicant will receive from Xavier University a notice of admission or a notice of unfavorable action as soon as the University has received necessary completed credentials as outlined above in the section on “Requirements for Admission.”

Deposits
All new applicants who have been approved for admission are required to confirm their acceptance by the payment of a non-refundable tuition deposit of $50.00. The deposit may be submitted any time after the letter of approval has been received, but it must be paid by May 1. Students who are approved after May 1 will be given three weeks to make the deposit. The deposit is credited to the student’s account and will be deducted from the total bill at registration.

In order to reserve a campus housing accommodation, the University requires a non-refundable deposit of $75.00 from all new resident students. The deposit may be submitted any time after the letter of approval has been received, but it must be paid by May 1. Students who are approved after May 1 will be given three weeks to make the deposit. The deposit is credited to the student’s account and will be deducted from the total bill at registration. A room reservation will not be honored without payment of the deposit. Students from the Cincinnati area are welcome to live on campus.
Admission to the College of Continuing Education

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

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

It should be noted that non-local full-time students registered for 12 semester hours or more through the College of Continuing Education and attending day classes must live in the dormitory until they attain status of Senior (90 semester hours completed). All fees applicable to full-time day students are applicable to full-time students registered for day classes through the College of Continuing Education.
Communications concerning costs for the College of Continuing Education should be addressed to the Dean of the College of Continuing Education, Xavier University, Cincinnati, Ohio 45207. Certain charges, such as the deposit with the application, are not required by the College of Continuing Education.

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

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

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

Accounts Payable and Service Fee*

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

All student accounts are due and payable at the time of registration. Arrangements may be made for partial deferred payment. Under the deferred payment plan, the following payments, for the semester, must be made before registration is completed: a) a minimum of 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 1½% per month service fee will be charged to all accounts with an unpaid balance over 30 days old. The service fee is computed on the balance outstanding on the first day of the preceding month, less any payments and credits received during that month. New charges incurred during the month are not subject to a service fee for that month. To avoid any additional service fee, the entire amount due may be paid at any time.

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

Ordinary Expenses*

Tuition, Full-time undergraduate, per semester@ (covers 12 to 18 semester credit hours) .................................... $1495.00
Tuition, per semester hour in excess of 18 or fewer than 12, College of Arts and Sciences, Business Administration ............................................. 100.00
Tuition, per semester hour in excess of 18 or fewer than 12, College of Continuing Education .......................................................... 71.00
Matriculation fee (payable once) .................................................... 10.00
ROTC fee (per semester) ......................................................... 10.00
Laboratory science fee (per course per semester, for Biology, Chemistry, Physics, Experimental Psychology, Physiological Psychology, and Statistical Techniques) ........................................ 30.00

*Expenses listed are for the 1980-1981 academic year. Changes are made in these rates from time-to-time.
@Includes College of Continuing Education students enrolled in two or more day classes.
Fees

Laboratory materials deposit (per course per semester—partially refundable) .................. $ 15.00
Laboratory materials deposit, Comparative Anatomy ....................................................... 20.00
Laboratory materials deposit for science thesis (partially refundable) .......................... 35.00
Medical Technology fee (see block schedule) ............................................................... 75.00
General fee (per semester) ......................................................................................... 125.00
(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)
   Full-time students ................................................................. $ 15.00
   Part-time students ............................................................... 5.00

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

Contingent Expenses*

Fee for change in registration .................................................................................. $ 5.00
Late registration ........................................................................................................ 7.00
   Additional per day .................................................................................................. 1.00
   Maximum .............................................................................................................. 12.00
Special examinations (each) .................................................................................... 3.00
Duplicate transcript .................................................................................................. 2.00
Undergraduate Record Examination ........................................................................ 5.50
Graduation fee .......................................................................................................... 30.00
Parking permit
   Day Classes (8:00 a.m.-4:00 p.m.) ................................................................. 23.00
   Evening Classes Part-time student (4:00 p.m.-10:00 p.m.) .................... 12.00

Room*

Room, per semester, double occupancy
   Brockman Hall ................................................................................................. $440.00
   Marion, Kuhlman, Husman, Rattermann Halls ............................................... 455.00
Additional charge per semester, for single occupancy for all, seniors and others, as available ................................................................. 150.00
Room Equipment Damage and Improvement fee (non-refundable) .................. 10.00
   All rooms are equipped with a bed, desk, and chair. Students are expected to bring blankets, towels, and soap.

Board*

Students who live on campus are required to take their meals in the University Dining Room on a seven-day basis. There are two basic plans from which students may choose. (1) A seventeen-meal plan includes breakfast, lunch and dinner, Monday through Friday, and dinner only on Saturday and Sunday; cost, $470 per semester. (2) A nineteen-meal plan includes breakfast, lunch and dinner, Monday through Friday, with brunch and dinner Saturday and Sunday; cost, $495 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.)

Refunds (Undergraduate)*

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

   Before the first class meeting ............................................................................. 100% refund

* Expenses listed are for the 1980-1981 academic year. Changes are made in these rates from time-to-time.
First day of class and 7 calendar days thereafter ........................ 90% refund
8-13 calendar days after first class meeting ............................... 70% refund
14-20 calendar days after first class meeting ............................. 50% refund
21-27 calendar days after first class meeting ............................. 30% refund
28-34 calendar days after first class meeting ............................. 10% refund
After 34 calendar days ...................................................... no refund

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

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.

Financial Aid

SCHOLARSHIPS

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

1. For Colleges of Arts and Sciences and Business Administration Academic Scholarships: The Director of Financial Aid or Chairman, Scholarship Committee.
2. For College of Continuing Education Scholarships: The Dean, College of Continuing Education.
3. For Graduate Scholarships: The Dean, Graduate School (cf. page 207).
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 Arts and Sciences and Business Administration

St. Francis Xavier 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 the 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 studies provided that the recipient resubmits the Financial Aid Form each year, and attains an average of 3.0 in the first year and 3.25 thereafter.

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, and have no other Xavier scholarship or grant. While most of these scholarships are need based, a limited number are awarded solely on the basis of academic merit. Application for these scholarships should be made to the Financial Aid Office by April 15. The College Scholarship Service Financial Aid Form and the Xavier Aid Application must be submitted.
Financial Aid

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

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 be considered for Xavier Grants, a student must complete a Xavier Aid Application and College Scholarship Service Financial Aid Form.

Undergraduate Scholarship and Grant Regulations—Colleges of Arts and Sciences and Business Administration
1. St. Francis Xavier Scholarships are for full tuition and the general fee. Other scholarships and Xavier Grants apply to tuition alone and are not applicable to room or board. The tuition fees referred to here are those incurred on Xavier's campus not elsewhere.
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 and Xavier Grants must be accepted for the period of time indicated in the award letter from the Financial Aid Office. They may not be transferred by the holder and are forfeited in the event that the recipient does not enroll. The individual who wishes to have his scholarship or grant reinstated must reapply.
5. It is understood that the scholarship or grant stipend will be divided evenly between the fall and spring semesters. Hence recipients who attend only one semester will receive only one-half of their award.
6. All scholarships and Xavier Grants are awarded at the discretion of the Scholarship Committee of Xavier University. The Committee reserves the right to adjust the scholarship or grant 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 ROTC 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 Science Department. Annually one-year, two-year, and three-year scholarships may be awarded to members of the Xavier University junior, sophomore, and freshman ROTC classes respectively. All scholarships cover the cost of books, tuition, and fees, plus a monthly $100 subsistence allowance for not more than ten months of the school year.

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

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

GRANTS, LOANS, WORK-STUDY

Law Enforcement Education Program
Under the provisions of Section 406 of the Omnibus Crime Control and Safe Streets Act of 1968 (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 five programs which follow these requirements.

1. Be a U.S. citizen or permanent resident.
2. Must be enrolled on at least a half-time basis (6 semester hours or more) in 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."
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.

Guaranteed Student Loan

A 7 percent interest loan available to undergraduate and graduate students who are enrolled at least half-time.

The federal government pays the interest until the student must begin repaying the loan. Need is not a factor. An undergraduate student may borrow up to $2,500 per year, but cannot have more than $7,500 outstanding for undergraduate study. A graduate student may borrow up to $5,000 per year, but cannot have more than $15,000 outstanding, including loans made at the undergraduate level. GSL's are available from banks, savings and loan associations, credit unions, and other lenders.

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 further details, communicate with the Director of Student Aid, Xavier University.
Financial Aid

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.

Grants ranging from $200 to $1,800 are made to students with financial need who are enrolled one-half, three-quarter or full-time in an eligible program. A student can receive a BEOG for four years. The FAF can be used to apply.

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.

Conditions or restrictions on certain scholarships are indicated; however, similar restrictions may apply to other funds, even though they are not noted. Complete information is available from the Chairman of the Scholarship Committee.

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 $115,200

Fr. Poland established this fund from his patrimony at the time of the death of his parents.

Elizabeth Sullivan Scholarship, 1924, $3,000

Mary B. Shannon Scholarship Fund, 1925, $28,666

Worpenberg Family Scholarship, $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 Mohlenhoff Scholarship (in memory), $2,000

The Ryan Sisters Scholarship, $3,000

Siedenberg-King Scholarship, $2,000

Margaret Shea Scholarship, 1937, $3,726

Archbishop McNicholas Memorial Scholarship, 1940, $5,000

Mr. 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 Quadricentennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

Rev. James McCarthy, S.J., Scholarship, 1942, $3,500

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, $2,155

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.

Charles A. Clesperis Scholarship, 1948, $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 1960 to honor Mr. and Mrs. Andrew J. McDonald, provides income for a graduate assistant in the Department of Chemistry.

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

Class of 1931 Scholarship, 1956, $8,500
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 Mrs. 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
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.

This scholarship fund honors the memory of the late Mr. Sander, '34, whose service to his Alma Mater included chairmanships of the Athletic Board and the Alumni Living Endowment Fund.

The James H. and Marye S. Curran Memorial Scholarship Fund, 1971, $35,328
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 Mary Manning Walsh Scholarship Fund, $1,104.13
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 Mary Manning Walsh Scholarship Fund, 1971, $25,000
A bequest from the estate of Fred F. Mackenfepe for scholarship use in the donor's name. The scholarship grants are awarded at the discretion of the Scholarship Committee.
Financial Aid

The Reverend William P. Hetherington, S.J., Memorial Scholarship Fund, 1971, $12,913
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, $15,090
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, $9,405
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 Elsaesser Harpenau Memorial Scholarship Fund
The fund honors the memory of the late Mrs. Robert A. Harpenau (Rita Elsaesser). The fund was created by the family and friends.

The Edmund J. Bradley Memorial Fund, $173,562
This fund 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 Elsaesser Harpenau Memorial Scholarship Fund, 1973, $50,000
This fund honors the memory of Mrs. Robert A. Harpenau (Rita Elsaesser). The fund was created by Mrs. Anthony C. Elsaesser in memory of her daughter. The fund will assist unprivileged but capable students to attend Xavier University.

The Helen Hennigan Diehl—Thomas J. Klinedinst Scholarship Fund
This scholarship was established in 1975 by St. Francis Hospital. It honors Mrs. Helen Hennigan Diehl and Mr. Thomas J. Klinedinst for the many years of dedicated and loyal service to the Hospital as members of the Board of Trustees and many auxiliary activities. Six hundred fifty dollars is awarded to the student/students selected by the faculty of the Hospital and Health Administration program.

The Equitable Life Assurance Company Scholarship
This scholarship, made available through the Association of University Programs in Hospital and 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.

U.S. Public Health Service Traineeships
When awarded, a traineeship will pay partial tuition and may provide some stipend support. These traineeships are awarded prior to the start of graduate studies with guidelines established by the Department of Health and Welfare.

L.H. Gunter Scholarship Fund
This fund was established by contributions from employees of the Veterans Administration Hospital System in memory of Mr. L.H. Gunter, prominent administrator in the Veterans Administration Hospitals. This is in the form of $100.00 awarded to a student selected by the faculty of the Graduate Program in Hospital and Health Administration.

Hospital Financial Management Association Scholarship
The Southwest Ohio Chapter of the Hospital Financial Management Association contributes a $500.00 scholarship to a first-year student evidencing an intention to pursue a career in hospital financial management.

Class of 1969 Scholarship, $3,582
This scholarship is designed to provide financial assistance to any needy student, preferably from socio-economic minority groups, who has sought all other means of financial aid and cannot begin or continue their college education without financial assistance. This aid is not to be allocated in strict accordance with academic achievement. The sole criterion that the student be qualified for admission or that he be in good academic standing.

Class of 1970 Scholarship, $2,718
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.

The Rev. Frederick N. Miller, S.J., Scholarship Fund, $11,720
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.

Caroline Gerst Memorial Scholarship Fund, $1,421

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A scholarship fund provided by an anonymous donor to honor the memory of the late Fr. O'Connor.

Ben Rehling Memorial Scholarship Fund, $2,000
Claude A. Ritter Memorial Scholarship Fund, $4,650
James F. Griffin, III, Memorial Scholarship Fund, $22,090
Class of 1973 Scholarship Fund, $3,186
Thomas K. Jenkins, Jr., Memorial Scholarship Fund, $3,592
Walter A. McDonald Scholarship Fund, $200,790
Harry D. Foley Scholarship Fund, $1,000
Mary Poland Verkamp Scholarship Fund, $5,020
This fund provides scholarship assistance to students in the Honors Program.

Doreen Jankowski, Class of 1974, Memorial Scholarship Fund, $4,191
A memorial fund donated by the Class of 1974 to be awarded to an undergraduate student.

Katherine Niehaus Memorial Scholarship Fund, $6,095
Jacob W. Schweizer Scholarship Fund, $2,236
An award given to a worthy student in financial need majoring in accounting.

Rev. Thomas G. Savage, S.J., Memorial Scholarship Fund, $17,515
A scholarship awarded to an outstanding undergraduate student.

Pre-Dental Students Scholarship Fund, $2,955
Anonymous Scholarship Fund, $48,216
A scholarship fund to assist students in pre-medical and pre-dental programs.

Sesqui Scholarship Endowment, $4,129
V.B. Nieporte Scholarship Fund, $21,310
Ralph and Julie Cohen Scholarship Fund, $20,000
Jacob G. Schmidlapp Scholarship Fund, $100,000
A scholarship fund provided by the Schmidlapp Foundation for students in health-related programs.

Henry Bunker Memorial Scholarship Fund, $4,002
This scholarship to be awarded to a student significantly involved in the athletic program of the University.

H.J. Gilligan Memorial Scholarship Fund, $26,455
Janet and Ralph Sieve Scholarship Fund, $2,000
Jackson H. Miller Scholarship Fund, $56,007
This fund honors the memory of the late Mrs. Jackson H. Miller.

Garry Family Scholarship Fund, $10,398
This memorial to Mr. Frank A. Garry provides scholarships preferably to graduates of St. Ignatius High School, Cleveland, and St. Xavier High School and Ursuline Academy, Cincinnati.

The Helen and Harry Cordesman Scholarship, $100,000

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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, and Bachelor of Science. 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 universalism 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 classics, 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 151.) 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.

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
Curricular Information

mathematics requirement. However, the semester hours—three (3)—may be used to fulfill any or partial free elective requirements in the student's program but only if the student has not previously successfully completed any college-level mathematics. However, any student who wishes may audit Mt 105.

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

Science

Six semester hours of the same laboratory science must be passed successfully by all students. In some degree programs this requirement is fulfilled by a science course which requires more than six semester hours over two semesters (General Zoology, General Chemistry, College Physics, or University Physics). The two semester courses (six semester hours total) which fulfill this regulation are: Biology 120-133 Life and Laboratory; Biology 180-183 Ascent of Man and Laboratory; Chemistry 102-105 Men, Molecules, and the Environment and Laboratory; Physics 116-119 Our Universe and Laboratory; and Psychology 121-124 General Experimental Psychology and Laboratory.

Philosophy

Twelve semester hours of philosophy are generally required of all undergraduates. All courses are grouped under four Areas, corresponding 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 when using previous program:

Area I courses (PI 100-199) replace and are the equivalent of Philosophy of Man (PI 220)
Area II courses (PI 200-249) 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. Normally, a transfer student takes one course in philosophy for each year of academic requirements at Xavier: sophomore with three courses (Area I, Area III, Area IV); junior with two courses (Area I, Area III); senior with one course or more as per arrangement (with Area III to start with).

Theology

Th11 Introduction to Theology is required of all students. It is a prerequisite to all theology courses. Additionally, nine semester hours of theology electives are required in every degree program. The student may elect any nine semester hours in theology to complete this curricular requirement from theology courses numbered 200-399. (Requirements for transfer students depend upon transfer evaluation.)

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>Area</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities*</td>
<td>12</td>
</tr>
<tr>
<td>Social Science*</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>6</td>
</tr>
<tr>
<td>Science*</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy*</td>
<td>12</td>
</tr>
<tr>
<td>Theology*</td>
<td>12</td>
</tr>
<tr>
<td>English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language (Arts and Sciences only)*</td>
<td>12</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. Interested students should consult the Dean of the appropriate college for the specific requirements.

Free Electives

A number of University degree programs and majors require additional hours in free electives 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, 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" (Incomplete) will be in the student's permanent record. Unless the assignments are completed within 2 weeks after the last day of the regularly scheduled examinations, the student will be recorded as failing the course. In all cases of recorded "I" grades, the "I" will remain on the permanent record and the earned grade or the failing grade will be recorded as well.

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

N.B.—No undergraduate 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.
Academic Regulations

Quality Points

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

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

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

Satisfactory/Unsatisfactory

Juniors and seniors may take 6 hours on a Satisfactory/Unsatisfactory basis. In addition, education certification students must take their hours of student teaching as 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 the 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 except for the "D" grade. (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 or suspended.

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

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

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

Dean's List

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.)

Warned List

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

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

Writing Standards

The University requires a quality in written papers for class assignments which meet ac-
Academic Regulations

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

Disciplinary Action

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

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

Loss of Academic Credit

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

Attendance

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

Absence from a Test

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

Transfer within the University

A student who wishes to transfer from one college of the University to another must make application to the Dean of the college to which he desires to transfer. If the application is approved, arrangements for the transfer will be made. Ordinarily transfers from the College of Continuing Education to Day School and from Day School to the College of Continuing Education will not be approved for full-time students until after the student has completed two full semesters in the division from which he wishes to transfer.

Transfers should be arranged at least one month before the opening of a session.

Withdrawal from Courses

A student must withdraw in person and in writing from course(s) for which registration has been completed. A student wishing to withdraw from a course should first discuss the matter with the instructor. The withdrawal must be certified by the student's Dean or 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.
Academic Regulations

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.
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 if in the College of Arts and Sciences—unless the department has a substitute requirement.
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 3.90 in his college work will be graduated summa cum laude; one who has earned 3.75, magna cum laude; one who has earned 3.50, cum laude. These honors are announced at commencement and are inscribed on the diplomas of those merit them.

For students graduating in June, the final semester's work cannot be computed in determining the quality-point average for honors for inscriptions 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 students are eligible for honors at graduation only under the following conditions:

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

Reservation of Rights

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

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

Studies Outside the United States

Students who desire to study abroad as part of their undergraduate education have a number of possibilities open to them. The student should consult the Chairman of the International Education Committee and the Chairman of the Department of Modern Languages for available opportunities. The program sponsored by Loyola University, Chicago, 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 set by the University or by the departments which conduct the instruction. Students may not disregard the directions of the Dean and of the chairmen of departments in this matter.

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

Honor Societies

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

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

Psi 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 fourragère 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.
UNDERGRADUATE DEGREE PROGRAMS

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts Degree
- Classics
- Economics
- English
- History
- International Affairs
- Modern Languages
- Philosophy
- Political Science
- Sociology
- Theology

Bachelor of Science Degree
- Applied Science/Engineering
- Biology
- Chemical Science
- Chemistry
- Communication Arts
- Computer Science
- Elementary Education
- Mathematics
- Medical Technology
- Montessori Education:
  - pre-primary and elementary
  - Natural Sciences
  - (pre-medical, pre-dental)
  - Pre-pharmacy (2 year)
  - Physical Education and Health
  - Physics
  - Psychology
  - Secondary Education
  - Special Education:
    - Learning and Behavior Disorders or
    - Moderately, Severely, and
    - Profoundly Retarded (Grades 1-8)

Bachelor of Science Degree in Business
- Accounting
- Economics
- Finance
- Industrial Relations
- Information Systems
- Management
- Marketing

Bachelor of Science Degree
- Nuclear Medical Technology
- Social Studies

Bachelor of General Studies

SPECIAL PROGRAMS

Honors A.B. Program
University Scholars' Program

Liberal Arts Degree
- with Business Option
- Bachelor's Degree plus M.B.A.
  - in four years

COLLEGE OF CONTINUING EDUCATION

Associate Degree in Arts and Sciences
- Communication Arts
- Economics
- English
- History
- Modern Languages
- Nuclear Medical Technology
- Political Science
- Psychology
- Radiologic Technology
- Sociology
- Theology

Associate Degree in Business Administration
- Accounting
- Data Processing Operations
- General Business
- Industrial Relations
- Management
- Marketing

Associate Degree in Real Estate

Bachelor of Arts Degree
- Selected Majors in the College of Arts and Sciences
  - Humanities

Bachelor of Science Degree
- Selected Majors in the College of Arts and Sciences
- Nuclear Medical Technology
- Social Studies

Bachelor of Science in Business Administration
- Accounting
- Economics
- General Business
- Industrial Relations
- Information Systems
- Management
- Marketing

*Programs are available to meet ELEMENTARY, SECONDARY AND MONTESSORI REQUIREMENTS. State certification requirements mandate daytime classroom observation. For students able to attend SOME DAY CLASSES, majors may be completed in: Chemical Science, English, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, and Theology. Consult degree requirements of major for specific details. In Psychology, special evening-weekend arrangements can be made.
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 humanities requirement is fulfilled with 12 hours of English literature; the social science requirement is normally fulfilled either with 12 hours of history or with 6 hours of history and 6 hours of economics; the six hours of mathematics should include calculus; the science course should be General Chemistry, or General Zoology, or University Physics; a total of 21 hours of philosophy is required; and the special classical orientation of this Program is provided by 18-22 hours of Greek, 21 hours of Latin, and six hours of the History of Classical Literature.

The student should note that the possibility of some 36 elective hours enables the superior student to cover 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

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>En 115—Composition and Lit. I</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Gk 172—Plato or</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Gk 101—Elem. Greek</strong></td>
<td>3-5</td>
</tr>
<tr>
<td><strong>Lt 211—Livy</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Mt 150—Elements of Calculus I</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Science Elective</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Philosophy Area I</strong></td>
<td>3</td>
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<tr>
<td><strong>Elective@</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15-17</td>
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</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td><strong>En 116—Composition and Lit. II</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Gk 162—Euripides or</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Gk 102—Intro. to Greek Lit.</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Lt 213—Virgil: Aeneid VII-XII</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Mt 151—Elements of Calculus II</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Science Elective</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Philosophy Area I</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective@</strong></td>
<td>3</td>
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<td><strong>Total</strong></td>
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#### Sophomore Year

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<th>Course</th>
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<tbody>
<tr>
<td><strong>Gk 260—Sophocles</strong></td>
<td>3</td>
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<tr>
<td><strong>Lt 214—Latin Prose Style</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Pl 200—Origins of Phil</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Th 111—Intro. to Theology</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective@</strong></td>
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<tr>
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#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td><strong>Humanities Elective (Lit.)</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Gk 371—Plato: Republic</strong></td>
<td>3</td>
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<tr>
<td><strong>Ec or Hs—Elective</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Lt 391—Lucratus</strong></td>
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<tr>
<td><strong>Philosophy Area II</strong></td>
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<tr>
<td><strong>Theology Elective</strong></td>
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<tr>
<td><strong>Elective@</strong></td>
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</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td><strong>Gk 388—Hist. of Greek Lit.</strong></td>
<td>3</td>
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<tr>
<td><strong>Lt 356—Roman Satire</strong></td>
<td>3</td>
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<tr>
<td><strong>Philosophy Area IV Electives</strong></td>
<td>6</td>
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<tr>
<td><strong>Theology Elective</strong></td>
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<tr>
<td><strong>Electives@</strong></td>
<td>9</td>
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<tr>
<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 the Human Being), Area II (Metaphysics), Area III (Ethics), Area IV (Elective).
   - Th 111 Introduction to Theology, or any other HIP Theology course.
   - Hs 141 Ideas and Institutions I
   - Hs 142 Ideas and Institutions II
   - or any European History courses approved by the Director
   - Ec 101 Macroeconomic Principles
   - Ec 102 Microeconomic Principles
   - Pre-Med students may substitute General Psychology for one course in economics.

2. At least one University Scholars’ Seminar:
   - These seminars are offered every 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.

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

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

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

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

Guidelines for Scholars’ Program Interdisciplinary Major Option

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

2. The Director shall constitute an advisory committee for the student. This committee shall consist of the Director and one or two faculty members in specific subject areas covered by the proposed interdisciplinary major.

3. The committee shall evaluate the proposed major in terms of its coherence and intellectual seriousness and in terms of faculty, curricular, and library resources. If 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.
Prelegal Study

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

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

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

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

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

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

Students planning graduate study, teaching, or similar employment complete General 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, Bacteriology or General Botany, Genetics, Vertebrate Physiology, and Methods of Biological Research (21 hours), twelve recommended hours including Embryology, Comparative Anatomy, General Histology, and remaining hours (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.
# B.S. (Biology)
## Recommended Sequence of Program

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<tr>
<td>Ch 110—Gen. Chemistry I</td>
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<td>Mt 156—General Statistics</td>
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<td>Ph 106—College Physics II</td>
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<td>Bi 230—Genetics</td>
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<td>Ch 240—Organic Chemistry I</td>
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<td>Bi 360—Vertebrate Physiology</td>
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<td>Bi 361—Vertebrate Physiology Lab</td>
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<td>Bi 399—Methods of Biol. Research</td>
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<td>Bi—Biology Elective</td>
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<td>13-15</td>
<td><strong>Total</strong></td>
<td>16-17</td>
<td></td>
</tr>
</tbody>
</table>

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

@Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshman year and the start of language studies postponed to the sophomore or junior years. See Language requirements, page 36.

** See Curricular Requirements, page 34.
THE BACHELOR OF SCIENCE (Chemistry)

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

Departmental requirements for a major include:

3. The requirements in the major total 44 semester hours.
4. The requirements in mathematics total 12 semester hours: Mt 170, 171, 160, and 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>
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</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Ch 110—Gen. Chemistry I</td>
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<td>Mt 170—Calculus I</td>
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<tr>
<td>Th 111 Intro. to Theology</td>
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<td>Foreign Language</td>
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<td>En 101—English Composition**</td>
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<td><strong>16</strong></td>
<td><strong>Total</strong></td>
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</table>

| **Sophomore Year** | | | |
| Ch 230—Physical Chemistry I | 3 | Ch 232—Physical Chemistry II | 3 |
| Mt 171—Calculus II | 3 | Mt 160—Vectors and Geometry | 3 |
| Ph 108—Univ. Physics I | 3 | Ph 110—Univ. Physics II | 3 |
| Ph 105—Introductory Physics I | 1 | Ph 107—Introductory Physics Lab II | 1 |
| Foreign Language | 3 | Foreign Language | 3 |
| Philosophy Area II | 3 | Theology Elective | 3 |
| **Total** | **17** | **Total** | **18** |

| **Junior Year** | | | |
| Ch 239—Physical Anal. Meas. III Lab | 1 | Ch 242—Organic Chemistry II | 3 |
| Ch 240—Organic Chemistry I | 3 | Ch 243—Organic Chemistry II Lab | 1 |
| Ch 241—Organic Chemistry I Lab | 1 | Ch 261—Instrumental Analysis Lab | 2 |
| Ch 280—Instrumental Analysis | 3 | Ch 330—Physical Chemistry III | 2 |
| Mt 220—Advanced Calculus I | 3 | Humanities Elective (Lit.) | 3 |
| Humanities Elective (Lit.) | 3 | Philosophy Area IV | 3 |
| Philosophy Area III | 3 | Theology Elective | 3 |
| Ch 190—Chemical Literature | 1 | Ch 398—Chemical Research I | 1 |
| Ch 300—Seminar | 0 | Ch 300—Seminar | 0 |
| **Total** | **18** | **Total** | **18** |

| **Senior Year** | | | |
| Ch 250—Qual. Organic Analysis | 3 | Ch 320, 340 or 370 | 2-3 |
| Ch 260—Inorganic Chemistry | 3 | Ch 399—Chemical Research II | 1 |
| Theology Elective | 3 | Effective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Ch 300—Seminar | 0 | Ch 261—Inorganic Chemistry Lab | 1 |
| **Total** | **15** | **Total** | **13-14** |

*If a student has advanced standing in the calculus, he will begin his mathematics courses with Mt 170 or 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 35.

@See Language requirements, page 36. 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 34.
THE BACHELOR OF SCIENCE (Chemical Science)

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

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

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

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

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

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<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>Ch 110—Gen. Chemistry I</td>
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<td>Ch 112—Gen. Chemistry II</td>
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<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>History I (100-level Elective)**</td>
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<td>History I (100-level Elective)**</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
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</tr>
<tr>
<td>En 101—English Composition*</td>
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<td>Foreign Language</td>
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</tr>
<tr>
<td>Foreign Language**</td>
<td>3</td>
<td>Mt 149—Elementary Functions</td>
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<tr>
<td><strong>Total</strong></td>
<td>16</td>
<td><strong>Total</strong></td>
<td>17</td>
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| **Sophomore Year** | | | |
| Ch 120—Prin. of Phys. Chem. | 3 | Ph 106—College Physics II | 3 |
| Ch 151—Analytical Chemistry | 1 | Ph 107—Introductory Physics Lab II | 1 |
| Ph 104—College Physics I | 3 | Philosophy Area II | 3 |
| Ph 105—Introductory Physics Lab I | 1 | Social Science Elective | 3 |
| Mt 150—Elements of Calculus I | 3 | Foreign Language | 3 |
| Foreign Language | 3 | **Total** | 13 |
| **Total** | 14 | **Total** | 13 |

| **Junior Year** | | | |
| 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 |
| Theology Elective | 3 | Humanities Elective (Lit.) | 3 |
| Elective | 3 | Theology Elective | 3 |
| Humanities Elective (Lit.) | 3 | Elective | 3 |
| Ch 190—Chemical Literature | 1 | Philosophy Area III | 3 |
| **Total** | 14 | **Total** | 16 |

| **Senior Year** | | | |
| Ch 280—Instrumental Analysis | 3 | Ch 281—Instrumental Analysis Lab | 2 |
| Theology Elective | 3 | Ch—Elective | 2-3 |
| Philosophy Area IV | 3 | Electives | 6 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Ch—Elective | 3 | Social Science Elective | 3 |
| **Total** | 15 | **Total** | 16-17 |

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

** See Curricular Requirements, page 34.
THE BACHELOR OF ARTS (Classics)

The A.B. degree in classics is designed to bring students into intimate contact with the world of the ancient Romans or Greeks through the study of their language and literature. It introduces them to that era when Western man 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.
### A.B. (Classics)

**Recommended Sequence of Program**

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<tbody>
<tr>
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<tr>
<td>En 101—English Composition*</td>
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<td>15-17</td>
<td><strong>Total</strong></td>
<td>15-17</td>
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</table>

| **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** | 16 |

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

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

* Required, unless exempted through a test-out program. See pages 35-36.

** See Curricular Requirements, page 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

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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</tr>
<tr>
<td>Lt 101, 115 or 131</td>
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<td>Lt 102, 151 or 161</td>
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<td>or Gk 101</td>
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<td>Mt—Elective**</td>
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<td>Mt—Elective</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
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<td><strong>Total</strong></td>
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<td><strong>Sophomore Year</strong></td>
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<tr>
<td>Lt 131 or Lt (200-300 level course)</td>
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<td>Lt 161 or Lt (200-300 level course)</td>
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<td>or Gk (200-300 level course)</td>
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<td>or Gk (200-300 level course)</td>
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<td>Science Elective</td>
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<td>Theology Elective</td>
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<td>Philosophy Area II</td>
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<td>CI—Elective</td>
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<td>CI—Elective</td>
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<td><strong>Junior Year</strong></td>
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<td>Lt (200-300 level course)</td>
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<td>or Elective</td>
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<td>Philosophy Area III</td>
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<td>CI—Elective</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<td><strong>Senior Year</strong></td>
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</tr>
<tr>
<td>Humanities Elective</td>
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<td>CI—Elective</td>
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<td>Theology Elective</td>
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<td>CI—Elective</td>
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</table>

*Required, unless exempted through a test-out program. See page 35.
**See Curricular Requirements, page 34.
THE BACHELOR OF SCIENCE (Communication Arts)

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. Emphasis on basic skills in written and spoken communication permeates all CA areas of concentration: Communication-Marketing (C-Mk), Film-Photography (F-Ph), Broadcast Journalism (BJ), Public Relations (PR), and Radio-Television (R-TV)—with hands-on experience in related labs. The F-Ph area uses the Photography Lab; the BJ and R-TV areas, WVXU-FM and the TV Center; the BJ and PR areas utilize the Typing Lab for writing courses.

Students select one of five areas, taking three courses in first year when specialization is begun. Following basic studies are area courses and electives, some electives being available from other than the chosen area of concentration. Departmental guidance is necessary with attention to the main features of the Course Sequence (below) and the general block schedule (opposite page). To the thirty-hour major, an additional six hours of CA courses may be added. 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. Attested proficiency in writing skills is required before taking junior-level courses. Improvement in writing, speaking, and typing skills is expected. Senior comprehensive exams complete the requirements.

### Course Sequence for CA Areas of Concentration

<table>
<thead>
<tr>
<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>
<tr>
<td>C-MK</td>
<td>CA 203 and Mk 100</td>
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<tr>
<td>F-Ph</td>
<td>CA 203 and CA 207</td>
</tr>
<tr>
<td>BJ</td>
<td>CA 203 and CA 237</td>
</tr>
<tr>
<td>PR</td>
<td>CA 203 and CA 237</td>
</tr>
<tr>
<td>R-TV</td>
<td>CA 203 and CA 218</td>
</tr>
</tbody>
</table>

| **Sophomore Year** |                 |
| C-Mk             | CA Restricted #1* |
| F-Ph             | CA 213             |
| BJ               | CA 239             |
| PR               | CA 239             |
| R-TV             | CA 219             |

| **Junior Year** |                   |
| C-Mk            | Mk 202             |
| F-Ph            | CA 211 and CA 212  |
| BJ              | CA 241 and CA Elective |
| PR              | CA 251 and CA Elective |
| R-TV            | CA 222 and CA 232  |

| **Senior Year** |                   |
| C-Mk            | CA or Mk Elective |
| F-Ph            | CA Elective       |
| BJ              | CA Elective       |
| PR              | CA Elective       |
| R-TV            | CA 233 and CA Elective |

* Consult department for further details.
**B.S. (Communication Arts)**

**Recommended Sequence of Program**

(Refer to CA Area Course Sequence on preceding page)

<table>
<thead>
<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<td>CA</td>
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<td>CA</td>
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</tr>
<tr>
<td>Foreign Language</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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<td>History II (100-level Elective)**</td>
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<tr>
<td>Humanities Elective (Lit.)</td>
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<td>Philosophy Area II</td>
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<tr>
<td>Mathematics Elective**</td>
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<td>Mathematics Elective</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>CA</td>
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<td>CA</td>
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<td>Social Science Elective</td>
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<td>Theology Elective</td>
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<td>Philosophy Area III</td>
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<td><strong>Senior Year</strong></td>
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<td>Philosophy Area IV</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

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

** See Curricular Requirements, pages 34-36.

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

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

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

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

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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>CS 124—&quot;BASIC&quot; Programming</td>
<td>CS 138—Numerical Computations</td>
</tr>
<tr>
<td>CS 126—Intro. to Computing</td>
<td>Mt 171—Calculus II</td>
</tr>
<tr>
<td>Mt 170—Calculus I</td>
<td>Mt 160—Vectors and Geometry</td>
</tr>
<tr>
<td>En 101—English Composition</td>
<td>History II</td>
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<tr>
<td>History I</td>
<td>Th 111—Intro. to Theology</td>
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<tr>
<td>Philosophy Area I</td>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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<tr>
<th><strong>Sophomore Year</strong></th>
<th><strong>Third Semester</strong></th>
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<tbody>
<tr>
<td>CS 255—Assembler Language</td>
<td>CS 256—Assembler Project</td>
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<tr>
<td>Mt 220—Advanced Calculus I</td>
<td>CS 325—Data Structures</td>
</tr>
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<td>Philosophy Area II</td>
<td>Theology Elective</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<th><strong>Junior Year</strong></th>
<th><strong>Fourth Semester</strong></th>
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<tbody>
<tr>
<td>CS 335—Operating Systems</td>
<td>CS 355—Programming Languages</td>
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<td>CS Elective†</td>
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<td>Philosophy Area III</td>
<td>Theology Elective</td>
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<table>
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<tr>
<th><strong>Senior Year</strong></th>
<th><strong>Fifth Semester</strong></th>
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<tbody>
<tr>
<td>CS 395—C.S. Seminar</td>
<td>CS-CSR Elective</td>
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<tr>
<td>CS—CSR Elective</td>
<td>Theology Elective</td>
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<td>CS 390—Senior Project</td>
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<td>Social Science Elective</td>
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<td>Social Science Elective</td>
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<tr>
<td>16</td>
<td>12</td>
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</table>

*Required, unless exempted through a test-out program. See pages 35-36.
†CS elective approved by advisor.
@CSR (Computer Science related electives) are courses in such areas as business, mathematics, or science, approved by advisor.
**Students are required to elect a major level, 8-hr., science elective.
Seniors must fulfill the comprehensive examination and GRE requirements.
THE BACHELOR OF ARTS (Economics)

The Bachelor of Arts degree in economics is offered to those who wish to take the traditional liberal arts program. The curriculum of an economics major is designed to satisfy the student's desire for a broad liberal arts background, and to provide a general, but thorough, understanding and appreciation of economic activity. As an economics major, the student is provided with a knowledge of the economic system of the United States as well as the concepts, tools of analysis, concerns, and points of view of professional economists. 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; and twenty-one (21) hours of economic electives at least three (3) of which must be either Ec 345 International Economics or Ec 335 Public Finance. The major requires a total of thirty-three (33) semester hours of economics. In addition, Mt 150 Elements of Calculus I and Mt 146 Elementary Statistics are required for the economics major.
A.B. (Economics)  
Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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</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>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<td>Mt 146—Elementary Statistics</td>
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<td>Mt 150—Elements of Calculus I***</td>
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</tr>
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</table>

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

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

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

*Required, unless exempted through a test-out program. See page 35.
**See Curricular Requirements, page 34.
***Some students may find it necessary to use one of their free electives to take Mt 149 Elementary Functions prior to taking Mt 150 Elements of Calculus I.
****At least three of these hours must be either Ec 345 International Economics or Ec 335 Public Finance.
TEACHER CERTIFICATION

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

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

Each student must be formally accepted in writing into the teacher education program before he 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, 14 Alter Hall.
3. For teaching health and physical education, the student must follow the B.S. (Physical Education and Health) program. Information and counseling are available at the Physical Education Office in the Xavier University Fieldhouse.

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

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

Outside of Ohio
Students desirous of meeting professional requirements of other states should obtain an official statement of specific requirements from the Department of Education of their respective 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

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<tr>
<td>En 101—English Composition</td>
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<td>B1 114—Intro. to Life Science</td>
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<td>Ed 300—Intro. to Elem. Ed.</td>
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<td>Po 110—American Government</td>
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| **Sophomore Year** | | | |
| Ed 141—Human Growth & Dev. I | 3 | Ed 142—Human Growth & Dev. II | 3 |
| En 226—Children’s Literature | 3 | Ed 315—New Math; Elem. Teachers | 3 |
| Hs I@@ | 3 | Philosophy Area II | 3 |
| Th—Elective | 3 | Ed 439—Learning & Behv. Disorders | 2 |
| Hs II@@ | 3 | Hs II@@ | 3 |
| **Total** | 15 | **Total** | 16 |

| **Junior Year** | | | |
| Ed 214—Meth. of Teach. Reading | 3 | Ed 302—Elem. Meth. & Mat.: Soc.St.@ | 2 |
| Ed 301—Elem. Meth. & Mat.: Science@ | 2 | Ed 307—Elem. Meth. & Mat.: Lang. Arts and Linguistics | 3 |
| Ed 313—Elem. Meth. & Mat.: Art | 1 | Ed 212—Clinical Experience++ | 1 |
| Ed 314—Elem. Meth. & Mat.: Music | 1 | American History (II) | 3 |
| Ed 382—Elem. Health & Hygiene | 2 | Ed 216—Diag. Reading Instruction | 3 |
| American History (I) | 3 | Philosophy Area III | 3 |
| Th—Elective | 3 | | |
| **Total** | 15 | **Total** | 16 |

| **Senior Year** | | | |
| Ed 204—Student Teaching* | 6 | En 200—Adv. Comp. for Teachers | 3 |
| Ed 304—Seminar Prof. Prob. | 3 | En Elective | 3 |
| Ca 101—Oral Communication | 3 | Philosophy Area IV | 3 |
| | | Elective | 3 |
| | | Th—Elective | 3 |
| **Total** | 12 | **Total** | 15 |

+Ed 300 includes the September observation experience and additional school observations throughout the semester.  
#An approved visual art course. See counselor.  
##Approved non-instrumental music.  
@@Majors must elect one semester of a Western civilization course and one semester of a non-Western civilization course. Any combination fulfills the requirement. Consult counselor.  
@Ed 300 is a prerequisite for Ed 301, 302, and 307. Ed 300 requires 1/2 day per week for one semester of field experiences.  
++Prerequisite for student teaching and requires two one-half day field experiences per week.  
*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 (Kindergarten Methods and Materials I — 2 cr. hrs.), II (2 cr. hrs.) as electives and must split student teaching experiences between Kindergarten and other appropriate grade levels.
**B.S. Elementary Education**
**(Grades 1-8) Special Education Certification**
**Concentration in Learning and Behavior Disorders and/or MSPR**
**Recommended Sequence of Program**

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<td>Ed 271—Intro. to Emotionally Disturbed Child</td>
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<td>Mt 100—New Math: Elem. School</td>
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<td>Ed 439—Learn. &amp; Behav. Disorders</td>
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<td>Ed 273—Educating the Excep. Child</td>
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<td>Ed 314—Elem. Meth. &amp; Mat.: Music</td>
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<td>Ed 382—Elem. Health &amp; Hygiene</td>
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<td>Ed 216—Diag. Reading Instruction</td>
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<td>American History (I)</td>
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<td>Philosophy Area III</td>
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<td>Ed 446—Education of MSPR*</td>
<td>2</td>
<td>Ed 212—Clinical Experience Elem.++</td>
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<td>CA 101—Oral Communication</td>
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<td>En 200—Adv. Comp. for Teachers</td>
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<td>Ed 440—Ind. Assess. and Prescriptive Teaching</td>
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<td>Ed 204—Student Teaching*</td>
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<td>Ed 441—Meth. &amp; Mat.: Exc. Children</td>
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<td>Ed 304—Seminar: Prof. Problems</td>
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<td>Ed 276—Psych. of Delinquency</td>
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<tr>
<td>Th—Elective</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
<td>12</td>
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</table>

# Any approved visual art course. See counselor.
+ Ed 300 includes the September observation experience and additional school observations throughout the semester of 1/2 day per week.
### Any approved non-instrumental music course. See counselor.
@One semester of a Western civilization course; one semester of a non-Western course. See counselor.
@@Ed 300 is a prerequisite for Ed 301, 302, and 307. Ed 300 requires 1/2 day per week for one semester of field experiences.
**Not to be taken unless MSPR certification is desired.
++Requires two one-half day clinical experiences in schools. Prerequisite for student teaching.
*The student teaching experience includes student teaching in LD/BD-MSPR, for appropriate certification. (Either or both can be obtained.)
### B.S. (Physical Education and Health)

#### Recommended Sequence of Program

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<td><strong>Freshman Year</strong></td>
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<tr>
<td>BI 107—Human Anat. &amp; Phys. I Lab</td>
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<td>BI 109—Human Anat. &amp; Phys. II Lab</td>
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<td>Mt 146—Elementary Statistics</td>
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<td>Mt—Elective (Mt 140 or above)</td>
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<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<td>En 101—English Composition©</td>
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| **Sophomore Year** | | | |
| Ed 131—Intro. to Sec. Ed | 3 | Ed 142—Human Growth & Dev. II | 3 |
| Ed 141—Human Growth & Dev. I | 3 | Ed 274—Mental Hygiene | 2 |
| History I (100-level Elective)†† | 3 | History II (100-level Elective)†† | 3 |
| Ed 371—Gym & Tumbling† | 2 | Philosophy Area II | 3 |
| Ed 386—Kinesiology† | 2 | Ed 372—Coaching Football* or | |
| Ed 387—Safety & First Aid† | 2 | Ed 373—Coaching Basketball* or | |
| | | Ed 376—Theory of Officiating | 2 |
| | | Ed 375—Coaching Trk. & Fld.* and | |
| | | Ed 374—Coaching Baseball* or | |
| | | Ed 383—Coaching Women’s Team | |
| | | Sports* | 2 |
| **Total** | 15 | **Total** | 15 |

| **Junior Year** | | | |
| Philosophy Area III | 3 | Humanities Elective (Lit.) | 3 |
| Humanities Elective | 3 | Electives | 2 |
| Theology Elective | 3 | Ed 470—Basic Aquatics | 1 |
| | | Ed 215—Dev. Read. Sec. Schools | 3 |
| | | Ed 211—Clinical Experience | 1 |
| **Total** | 14 | **Total** | 15 |

| **Senior Year** | | | |
| Philosophy Area IV | 3 | Ed 403—Student Teaching and | |
| Theology Elective | 3 | Seminar | 9 |
| Humanities Elective (Lit.) | 3 | Ed 379—Phys. Ed. Meth. & Curr. | 6 |
| Humanities Elective | 3 | | |
| Elective | 2 | | |
| **Total** | 14 | **Total** | 15 |

©©This program meets State of Ohio certification requirements. (Grades 7-12.)
†Ed 377, 378 offered every other year alternating with Ed 371, 386, 387, 388.
©Required, unless exempted through a test-out program. See page 35.
††See Curricular Requirements, page 34.
**One or more of these courses are offered every year during the first and second semesters. By electing these cycled courses as they appear in the schedule, sophomores and juniors will meet state and University requirements, and their own needs.

For Ohio certification covering Physical Education Grades 1-8, students must include the following 7 hours (as part of their 10 hours of physical education and free electives:)
Ed 385 Physical Education in the Elementary School | 2
Ed 389 Adaptive Physical Education | 3
Ed 392 Perceptual Motor Problems in Education | 2

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### B.S. (Montessori Education)  
( Elementary (K-8) and Pre-primary)  
Recommended Sequence of Program

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<th>Second Semester (Sem. Hrs.)</th>
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<td>Ph 114—Intro. to Phys. Science</td>
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<td>Th 111—Intro. to Theology</td>
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<td>Ed 300—Intro. to Elem. Ed.+</td>
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<td>B1 114—Intro. to Life Science</td>
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**Sophomore Year**

| | Ed 141—Human Growth & Dev. I | 3 |
| | Ed 226—Children's Literature | 3 |
| | Mt | 3 |
| | History (I)@ | 3 |
| | Theology Elective | 3 |
| | **Total** | **18** |

**Junior Year**

| | Ed 214—Meth. of Teaching Reading | 3 |
| | Ed 301—Elem. Meth. & Mat.: Science@@ | 2 |
| | Ed 315—Elem. Meth. & Mat.: Art | 1 |
| | Ed 314—Elem. Meth. & Mat.: Music | 1 |
| | American History (II) | 3 |
| | Ed 454—Mont. Meth. & Mats. I** | 3 |
| | **Total** | **16** |

**Senior Year**

| | Ed 382—Elem. Health & Hygiene | 2 |
| | Humanities Elective (Lit.) | 3 |
| | Philosophy Area IV | 3 |
| | CA101—Oral Communication | 3 |
| | Ed 356—Mont. Curr. Des. & Tch. Str.: Elem.* or | 3 |
| | Ed 359—Full-Day Child Care Methods** | 3 |
| | Ed 457—Mont. Pre-primary Intern.* | 3 |
| | **Total** | **14-17** |

Recommended in Summer: En 200—Advanced Writing for Teachers... 3

**Total** 12-15

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- Includes the September observations and additional observations during the semester.  
- Either FA 251, 252, 255, or 256.  
- Either FA 105, 201, 213, 220, 225 or 227.  
- Students are required to take one semester of a Western civilization (culture) course and one semester of a non-Western culture course.  
- **Courses needed for Montessori elementary certification.**  
- @Ed 300 is a prerequisite for Ed 301 and 302. Ed 300 requires 1/2 day per week for one semester of field experiences.  
- **Courses needed for Montessori Pre-primary certification.**  

**NOTE:** A fee of $120 is required by the American Montessori Society for the AMS certification at the beginning of the internship.
THE BACHELOR OF ARTS (English)

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

English majors are required to take En 115, 116, 300 (The British Literary Experience), and 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, 116, 300, and 303, a course in Shakespeare, one additional course in dramatic literature, Tr 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

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<td><strong>Junior Year</strong></td>
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<td>Shakespeare Elective</td>
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†These courses satisfy the University English composition requirement for English majors.

** See Curricular Requirements, pages 34-36.
THE BACHELOR OF ARTS (History)

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

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

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

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

**Recommended Sequence of Program**

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<td>History I (100-level Elective)</td>
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<td>History II (100-level Elective)</td>
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<tr>
<td>Foreign Language</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
<td>En 101—English Composition</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

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

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

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

**See Curricular Requirements, pages 34-36.**

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

†Hs 293 may be taken any time after the sophomore year.
THE BACHELOR OF ARTS (International Affairs)

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

The program requires the following six courses (18 credit hours):

- Ec 344 Economics of International Relations
- Hs/Po 249 International Organizations
- Hs/Po 374 U.S. Foreign Policy
- Hs/Po 377 International Relations
- Po 110 American Government
- Po 376 International Law

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

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

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

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

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

**Field of Concentration—Business**

**Recommended Sequence of Program**

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

| Sophomore Year | | | |
| Modern Language | 3 | Modern Language | 3 |
| Hs/Po 377—International Relations | 3 | Philosophy Area II | 3 |
| Mt 149—Elementary Functions* | 3 | Mt 150—Elements of Calculus I | 3 |
| Theology Elective | 3 | Po 110—American Government | 3 |
| Humanities Elective | 3 | Mk 100—Prin. of Marketing | 3 |
| **Total** | 15 | **Total** | 15 |

| Junior Year | | | |
| Hs/Po 374—U.S. Foreign Policy | 3 | Humanities Elective | 3 |
| Science Elective | 3 | Science Elective | 3 |
| Theology Elective | 3 | Philosophy Area III | 3 |
| Ac 100—Prin. of Accounting I | 3 | Ac 101—Prin. of Accounting II | 3 |
| Geographic Concentration | 3 | Geographic Concentration | 3 |
| **Total** | 15 | **Total** | 15 |

| Senior Year | | | |
| Ec 344—Economics of Inter. Relations | 3 | Po 376—International Law | 3 |
| Humanities Elective | 3 | Philosophy Area IV | 3 |
| Hs/Po 249—International Organizations | 3 | BA 270—Business Statistics | 3 |
| Theology Elective | 3 | Geographic Concentration | 3 |
| Fl 255—Business Finance | 3 | IA 396—Internship | 3 |
| **Total** | 15 | **Total** | 15 |

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

@See Curricular Requirements, page 34.

**See Mathematics requirements, page 35.

***100-level History I & II—geographical area of specialization.
## A.B. (International Affairs)
*Fields of Concentration—Europe, Asia, Latin America*

**Recommended Sequence of Program**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
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<td>En 101—English Composition*</td>
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<tr>
<td>History I***</td>
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</tr>
<tr>
<td>Ec 101—Macroeconomic Principles</td>
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<tr>
<td>Th 111—Intro. to Theology</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Hs/Po 377—International Relations</td>
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</tr>
<tr>
<td>Mt 149—Elementary Functions**</td>
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<tr>
<td>Theology Elective</td>
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<tr>
<td>Humanities Elective</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>Hs/Po 374—U.S. Foreign Policy</td>
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<td>Science Elective</td>
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<tr>
<td>Theology Elective</td>
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<tr>
<td>Field of Concentration</td>
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<tr>
<td>Elective</td>
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<td><strong>Total</strong></td>
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</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td></td>
</tr>
<tr>
<td>EC 344—Economics of Int'l Relations</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
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</tr>
<tr>
<td>Hs/Po 249—International Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Field of Concentration</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

* Required, unless exempted through a test-out program. See page 35.
® See Curricular Requirements, page 34.
** See Mathematics requirements, page 35.
***100-level History I & II—geographical area of specialization.
THE BACHELOR OF SCIENCE (Mathematics)

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

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

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

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 34 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 or German. 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>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td></td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
<td>3</td>
</tr>
<tr>
<td>ML 111**</td>
<td>3</td>
<td>ML 112</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Mt 160—Vectors and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Mt 170—Calculus I</td>
<td>3</td>
<td>Mt 171—Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>Mt 124—&quot;BASIC&quot; Programming</td>
<td>1</td>
<td>Mt 138—Numerical Computations</td>
<td>2-3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
<td><strong>Total</strong></td>
<td>17-18</td>
</tr>
</tbody>
</table>

| **Sophomore Year** | | | |
| Science Elective | 3 | Science Elective | 3 |
| Philosophy Area II | 3 | Humanities Elective (Lit.) | 3 |
| ML 121 | 3 | ML 122 | 3 |
| Mt 210—Infinite Series | 2-3 | Mt 215—Differential Equations | 2-3 |
| Mt 220—Advanced Calculus I | 3 | Mt 230—Advanced Calculus II | 2-3 |
| **Total** | 14-15 | **Total** | 16, 17, or 18 |

| **Junior Year** | | | |
| Elective | 3 | Elective | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| Philosophy Area III | 3 | Theology Elective | 3 |
| Mt 240—Linear Algebra | 3 | Mt 250 or 260 | 3 |
| **Total** | 15 | **Total** | 15 |

| **Senior Year** | | | |
| Electives | 6 | Elective | 3 |
| Philosophy Area IV | 3 | Theology Elective | 3 |
| Mt—Electives# | 6 | Humanities Elective | 3 |
| **Total** | 15 | **Total** | 15 |

**See Curricular Requirements, pages 34-36.

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

#Electives in mathematics must be approved by the Chairman.
THE BACHELOR OF SCIENCE (Medical Technology)

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

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 17 semester hours in biology and 18 semester hours in chemistry.
## B.S. (Medical Technology) 
### Recommended Sequence of Program

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<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>
<td>1</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
<td>2</td>
</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
<td>Mt 156—General Statistics</td>
<td>3</td>
</tr>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</td>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

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

| **Junior Year** | | | |
| BI 360—Vert. Physiology | 2 | BI 212—Bacteriology | 2 |
| BI 361—Vert. Physiology Lab | 2 | BI 213—Bacteriology Lab | 2 |
| Ch 151—Analytical Chem. | 1 | BI 222—Immunology | 1 |
| Philosophy Area III | 3 | Philosophy Area IV | 3 |
| Humanities Elective (Lit.) | 3 | Theology Elective | 3 |
| Humanities Elective | 3 | Humanities Elective | 3 |
| Social Science Elective | 3 | Social Science Elective | 3 |
| **Total** | 17 | **Total** | 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.) |

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

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

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

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

In the 12 month clinical year (beginning in July) the student is in daily attendance on a 40-hour week basis to pursue a program of lecture courses and clinical training. All courses in the clinical year are carried out entirely in the hospital environment to make maximum use of 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.
# B.S. (Nuclear Medical Technology)

## Recommended Sequence of Program

### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 110—Gen. Zoology I (2) and</td>
<td>4</td>
</tr>
<tr>
<td>B1 111—Gen. Zoology I Lab (2) or</td>
<td>3</td>
</tr>
<tr>
<td>B1 106—Anat. &amp; Phys. I (2) and</td>
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</tr>
<tr>
<td>B1 107—Anat. &amp; Phys. I Lab (1)</td>
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</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
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<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>Mt 156—General Statistics</td>
<td>3</td>
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<tr>
<td>En 101—English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16-17</td>
</tr>
</tbody>
</table>

### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 112—Gen. Zoology II (2) and</td>
<td>4</td>
</tr>
<tr>
<td>B1 113—Gen. Zoology II Lab (2) or</td>
<td>1</td>
</tr>
<tr>
<td>B1 108—Anat. &amp; Phys. II (2) and</td>
<td>3</td>
</tr>
<tr>
<td>B1 109—Anat. &amp; Phys. II Lab (1)</td>
<td>3</td>
</tr>
<tr>
<td>Ch 112—Gen. Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Ch 113—Gen. Chemistry II Lab</td>
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</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Philosophy Area I</td>
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### Sophomore Year

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<th>Course</th>
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<tr>
<td>Ch 240—Organic Chem. I</td>
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<tr>
<td>Ch 241—Organic Chem. I Lab</td>
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<tr>
<td>Ph 104—College Physics I</td>
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<tr>
<td>Ph 105—Intro. Physics Lab I</td>
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<tr>
<td>History I (100-level Elective)**</td>
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<td>Theology Elective</td>
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<tr>
<td><strong>Total</strong></td>
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### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>B1 360—Gen. Vertebrate Phys.</td>
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</tr>
<tr>
<td>B1 361—Gen. Vertebrate Phys. Lab</td>
<td>2</td>
</tr>
<tr>
<td>Ch 151—Analytical Chemistry</td>
<td>1</td>
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<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
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<tr>
<td>Social Science Elective</td>
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<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

### Senior Year

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

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

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

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

**See Curricular Requirements, page 34.**
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. MAJORS. To obtain an undergraduate major in French or Spanish with a Business Option.

The programs for majors in Spanish and French aim at providing the student the opportunity to acquire an in-depth knowledge of the literature and civilization of linguistic 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, 234 or 235, 240, and 241.

Spanish majors must include at least one of the following: Sp 200, 201, 203, or 204.

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

<table>
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<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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†See Curricular Requirements, pages 34-36.
*Required, unless exempted through a test-out program. See page 35.

## 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 102.
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 the human being); 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 21 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.
A.B. (Philosophy)
Recommended Sequence of Program

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<td>PI 323-328 (Elect one)</td>
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<td>PI 301—Hist. of Ancient Phil. or PI 302—Hist. of Medieval Phil</td>
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<td>PI 305—Contemp. Phil. or PI 306—Contemp. Continental Phil or PI 307—Contemp. Brit. and Amer. Phil.</td>
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</table>

*See Curricular Requirements, pages 34-36.
*Required, unless exempted through a test-out program. See page 35.
THE BACHELOR OF SCIENCE (Physics)

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

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

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

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

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

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

**Recommended Sequence of Program**

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| **Sophomore Year** | | | |
| Mt 160—Vectors and Geometry  | 3 | Ph 244—Electronics II*  | 2 |
| Ph 242—Electronics I*  | 2 | Ph 245—Electronics II Lab*  | 1 |
| Ph 243—Electronics I Lab*  | 1 | Mt 215—Differential Equations  | 2 |
| Philosophy Area II  | 3 | Theology Elective  | 3 |
| Humanities Elective  | 3 | Foreign Language  | 3 |
| Foreign Language  | 3 | Humanities Elective  | 3 |
| **Total** | 18 | **Total** | 17 |

| **Junior Year** | | | |
| Ph 366—Atomic Physics*  | 3 | Ph 374—Nuclear Physics*  | 3 |
| Ph 375—Atomic Physics Lab*  | 1 | Ph 361—Nuclear Physics Lab*  | 1 |
| Ph 352—Electromagnetism*  | 3 | Ph 364—Optics*  | 3 |
| Ch 110—Gen. Chemistry I  | 3 | Ch 112—Gen. Chemistry II  | 3 |
| Ch 111—Gen. Chemistry I Lab  | 1 | Ch 113—Gen. Chemistry II Lab  | 1 |
| Mt 220—Advanced Calculus I  | 3 | Mt 230—Advanced Calculus II  | 2 |
| Philosophy Area III  | 3 | Theology Elective  | 3 |
| **Total** | 17 | **Total** | 16 |

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

# See Curricular Requirements, pages 34-36.

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

*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, students are encouraged to include experiential learning in their personal program if they feel it will contribute to their learning goals and objectives. To facilitate this the Department sponsors intern programs in Cincinnati and Washington, D.C., as well as foreign study programs in Europe. This program provides breadth which insures that the student is well grounded in the discipline and at the same time permits flexibility for concentration in a sub-field.

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

**Recommended Sequence of Program**

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<td>Po 221—Comparative Gov't</td>
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<td>Po 233—Political Theory</td>
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<td>Po 391—Problems in Am. Gov't or Po 390—Seminar in Inter. Relations</td>
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#See Curricular Requirements, pages 34-36.
*Required, unless exempted through a test-out program. See page 35.
*Principles of Economics recommended.
It is suggested that students use En 201 Expository and Research Writing for one of their free electives.
THE BACHELOR OF SCIENCE (Psychology)

The Department of Psychology endeavors to acquaint students thoroughly with the content and methods of scientific psychology. While emphasizing the scientific approach 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.
## B.S. (Psychology)
### Recommended Sequence of Program

### Freshman Year

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<td>BI 111—Gen. Zoology I Lab</td>
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### Sophomore Year

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<td>Ps 210—Statistical Techniques</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>History II (100-level Elective)#</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area II</td>
<td>3</td>
</tr>
<tr>
<td>Ps 221—Exp. Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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</table>

### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Ps 222—Exp. Psychology II</td>
<td>3</td>
</tr>
<tr>
<td>Ps—Elective</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
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</tr>
<tr>
<td>Philosophy Area III</td>
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<tr>
<td>Ps 201—Hist. and Systems</td>
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<td>Ps—Elective</td>
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### Senior Year

<table>
<thead>
<tr>
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<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td>Ps—Electives</td>
<td>4</td>
</tr>
<tr>
<td>Ps 299—Senior Comp. Review</td>
<td>2</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Philosophy Area IV</td>
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</tr>
<tr>
<td>Ps—Electives</td>
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</tr>
<tr>
<td>Elective</td>
<td>3</td>
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<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See page 35.
†Majors must choose the mathematics sequence 149, 150, or 150, 151 or 170, 171.
#See Curricular Requirements, pages 34-36.
Sociology, the study of man's behavior in the group context, is a science of excitement, growth, and change. It seeks to discover regularities and order in social behavior and to express these patterns as theoretical generalizations applying to the wide range of such behavior. General and specialized areas of study are covered, as indicated in the listing of courses offered by the department, and requirements are kept to a minimum in order to allow students flexibility in the design of their programs.

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

Students majoring in sociology must complete the following courses: So 101 Introduction to Sociology; So 180 Cultural Anthropology; So 300 Sociological Theories; So 352 Principles of Research; So 353 Intermediate Social Research; and a second theory based course such as So 226 Utopian Communities or So 265 Social Stratification. 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.
## A.B. (Sociology)
### Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>Second Semester</th>
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<tbody>
<tr>
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<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
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<td><strong>Freshman Year</strong></td>
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<td><strong>Sophomore Year</strong></td>
<td></td>
</tr>
<tr>
<td>History I (100-level Elective)**</td>
<td>3</td>
<td>History II (100-level Elective)**</td>
<td>3</td>
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<tr>
<td>Foreign Language**</td>
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<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
<td>Philosophy Area I</td>
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<tr>
<td>Science Elective</td>
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<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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<table>
<thead>
<tr>
<th>Junior Year</th>
<th></th>
<th>Senior Year</th>
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</thead>
<tbody>
<tr>
<td>Theology Elective</td>
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<td>Philosophy Area II</td>
<td>3</td>
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<tr>
<td>So 101—Intro. to Sociology</td>
<td>3</td>
<td>So 180—Cultural Anthropology</td>
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<tr>
<td>Foreign Language</td>
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<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Mt—Elective**</td>
<td>3</td>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>Mt 146—Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>15</td>
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</table>

| Electives | 6 | Philosophy Area IV | 3 |
| So—Electives | 6 | So—Electives | 6 |
| Theology Elective | 3 | Electives | 6 |
| **Total** | 15 | **Total** | 15 |

**See Curricular Requirements, pages 34-36.
*Required, unless exempted through a test-out program. See page 35.
It is suggested that students use En 201 Expository and Research Writing for one of their free electives.
THE BACHELOR OF ARTS (Theology)

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

The 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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Theology</td>
<td>1 3</td>
</tr>
<tr>
<td>5 courses arranged for theology majors</td>
<td>5 15</td>
</tr>
<tr>
<td>2 electives in specified areas of theology</td>
<td>2 6</td>
</tr>
<tr>
<td>3 theology electives</td>
<td>3 9</td>
</tr>
<tr>
<td>Senior Year</td>
<td>1 3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12 36</strong></td>
</tr>
</tbody>
</table>
# A.B. (Theology)
## Recommended Sequence of Program

<table>
<thead>
<tr>
<th>Year</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Junior</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Senior</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester</strong></td>
<td><strong>Sem. Hrs.</strong></td>
<td><strong>Sem. Hrs.</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Special section for theology majors.

**See Curricular Requirements, pages 34-36

#Required, unless exempted through a test-out program. See page 35.

%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.
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, in dentistry, and in similar professions. Recurrent pronouncements by Committees on Admissions at professional schools leave no doubt that they regard an education in the liberal arts as one of the most important factors in forming a genuinely capable and effective professional person. Students are advised to plan a four-year course.

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

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

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

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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 156—General Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language#</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>En 101—English Composition@</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14</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 104—College Physics I | 3 | Ph 106—College Physics II | 3 |
| Ph 105—Introductory Physics Lab I | 1 | Ph 107—Introductory Physics Lab II | 1 |
| Foreign Language | 3 | Foreign Language | 3 |
| Th 111—Intro. to Theology | 3 | Philosophy Area I | 3 |
| Humanities Elective (Lit.) | 3 | Humanities Elective (Lit.) | 3 |
| **Total** | 17 | **Total** | 17 |

| **Junior Year** | | | |
| Bi 310—Comp. Anat. Verte | 2 | Bi 230—Genetics | 3 |
| Ch 240—Organic Chem. I | 3 | 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 | Philosophy Elective | 3 |
| **Total** | 14 | **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 399, Ch 399, or Ph | 1 |
| Bi 360, Ch, or Ph** | 2-4 | Bi 398, Ch 398 or Ph | 1 |
| **Total** | 16-18 | **Total** | 12-14 |

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

**Recommended of those planning to take Ch 398 and 399, otherwise the course need not be taken.

***Student selects a senior year concentration of courses plus research in Biology or Chemistry or Physics. Consult Chairmen for departmental offerings.

@Required, unless exempted through a test-out program. See page 35.

#See Curricular Requirements, pages 34-36.
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 Sciences) programs. The student then should meet with the chairman of the appropriate science department for guidance in the choice of courses necessary for the desired degree.

*Pharmacy School Admission Requirements published by the American Association of Colleges of Pharmacy.
# Pre-Pharmacy Program
## 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>Mt 150—Elem. of Calculus I#</td>
<td>Mt 151—Elem. of Calculus II#</td>
</tr>
<tr>
<td>Bi 111—Gen. Zoology I Lab</td>
<td>Bi 113—Gen. Zoology II Lab</td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry</td>
<td>Ch 112—Gen. Chemistry II</td>
</tr>
<tr>
<td>Ch 111—Gen. Chemistry I Lab</td>
<td>Ch 113—Gen. Chemistry II Lab</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>Philosophy Area I</td>
</tr>
<tr>
<td>Ps 101—Gen. Psychology</td>
<td>En 101—English Composition%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>17</td>
<td>18</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 35.
- *Some Colleges of Pharmacy also require Bacteriology Lab (Bi 213).
- #See Curricular Requirements, page 34.
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.
Fi 255  Business Finance  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 Sciences provide a sufficient number of free elective hours to complete this program: communication arts, economics, English, history, mathematics, modern languages, philosophy, political science, sociology and theology.
# The College of Arts and Sciences

## A.B. AND B.S. DEGREES (Three-Year Programs)

Designed to prepare students for Graduate Business Programs*

### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>En 101—English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>Major I</td>
<td>3</td>
</tr>
<tr>
<td>History I (100-level Elective)*</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language*</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area I</td>
<td>3</td>
</tr>
<tr>
<td>Th 111—Intro. to Theology</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
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<tr>
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### Second Semester

<table>
<thead>
<tr>
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<tr>
<td>Humanities Elective (Lit.)</td>
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</tr>
<tr>
<td>Major II</td>
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</tr>
<tr>
<td>Philosophy Area II</td>
<td>3</td>
</tr>
<tr>
<td>History II (100-level Elective)*</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
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<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
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### First Year

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Major III</td>
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</tr>
<tr>
<td>Major IV</td>
<td>3</td>
</tr>
<tr>
<td>Ec 101—Macroeconomic Principles.</td>
<td>3</td>
</tr>
<tr>
<td>Mt 149—Elementary Functions</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area III</td>
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</tr>
<tr>
<td>Humanities Elective (Lit.)</td>
<td>3</td>
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<tr>
<td>Foreign Language</td>
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### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major V</td>
<td>3</td>
</tr>
<tr>
<td>Major VI</td>
<td>3</td>
</tr>
<tr>
<td>Ec 102—Microeconomic Principles.</td>
<td>3</td>
</tr>
<tr>
<td>Mt 150—Elements of Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Area IV</td>
<td>3</td>
</tr>
<tr>
<td>Fl 255—Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
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<td>21</td>
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### Third Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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</tr>
<tr>
<td>Major VIII</td>
<td>3</td>
</tr>
<tr>
<td>Theology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Mk 100—Prin. of Marketing</td>
<td>3</td>
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<tr>
<td>Ac 100—Prin. of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

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*See Curricular Requirements, pages 34-36.

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

For those majors requiring more than 30 semester hours and additional specific course requirements, such requirements must be fulfilled. The interested student should study carefully the requirements of the major and make necessary adjustments. Academic counselling 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, the liberal arts, and 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.
Xavier University—University of Cincinnati
Cooperative Engineering Program
B.S. (Applied Chemistry)
Recommended Sequence of Program

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<td>Mt 160—Vectors and Geometry</td>
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<td><strong>Junior Year</strong></td>
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<td>Ch 242—Organic Chemistry II</td>
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<td>Ch 330—Physical Chemistry III</td>
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<td>Mt 230—Advanced Calculus II</td>
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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 34.
Xavier University—University of Cincinnati
Cooperative Engineering Program
B.S. (Applied Physics)
Recommended Sequence of Program

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<tr>
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<tr>
<td><strong>Freshman Year</strong></td>
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<td>Ph 105—Intro. Physics Lab I</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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<td>Computer Science</td>
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<td>Th 111—Intro. to Theology</td>
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<td>Philosophy Area I</td>
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<td>16</td>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

| Sophomore Year | | | |
| Ph 242—Electronics I* | 2 | Ph 244—Electronics II* | 2 |
| Ph 243—Electronics I Lab* | 1 | Ph 245—Electronics II Lab* | 1 |
| Mt 160—Vectors and Geometry | 3 | Mt 215—Differential Equations | 3 |
| Ch 110—Gen. Chemistry I | 3 | Ch 112—Gen. Chemistry II | 3 |
| Ch 111—Gen. Chemistry I Lab | 1 | Ch 113—Gen. Chemistry II Lab | 1 |
| Philosophy Area II | 3 | Theology Elective | 3 |
| En 115—Composition and Lit. I | 3 | **Total** | 19 |
| **Total** | 19 | **Total** | 16 |

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

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

@See Curricular Requirements, page 34.

*These courses offered on alternate years.
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 34-36 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 I, II</td>
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<td>Ec 101, 102</td>
<td>Macroeconomic Principles, Microeconomic Principles</td>
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<td>IS 100</td>
<td>Principles of Data Processing</td>
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<tr>
<td>IR 210</td>
<td>Human Resources</td>
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<tr>
<td>Fl 250</td>
<td>Money and Banking</td>
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<td>Fl 255</td>
<td>Business Finance</td>
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<td>Mk 100</td>
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<td>BA 280</td>
<td>Legal Environment</td>
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<tr>
<td>Total</td>
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</tbody>
</table>
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Accounting)

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

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 Cost Accounting; Ac 230 Taxation; Ac 310 Advanced Accounting; 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.
## B.S.B.A. (Accounting)

### Recommended Sequence of Program

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

| **Sophomore Year** | | |
| Ac 200—Intermediate Accounting I | Ac 201—Intermediate Accounting II | 3 | 3 |
| Fl 255—Business Finance | BA 270—Business Statistics | 3 | 3 |
| Mk 100—Prin. of Marketing | Mg 100—Prin. of Management | 3 | 3 |
| Philosophy Area II | Theology Elective | 3 | 3 |
| Humanities Elective | Humanities Elective | 3 | 3 |
| **Total** | **Total** | 15 | 15 |

| **Junior Year** | | |
| Ac 220—Cost Accounting I | Ac 221—Cost Accounting II | 3 | 3 |
| Ac 330—Taxation* | Ac 310—Advanced Accounting** | 3 | 3 |
| Philosophy Area III | Elective | 3 | 3 |
| Humanities Elective | Theology Elective | 3 | 3 |
| Science Elective | Science Elective | 3 | 3 |
| **Total** | **Total** | 15 | 15 |

| **Senior Year** | | |
| Ac 320—Auditing** | Humanities Elective | 3 | 3 |
| BA 280—Legal Environment | Theology Elective | 3 | 3 |
| IR 210—Human Resources | Philosophy Area IV | 3 | 3 |
| Fl 250—Money and Banking | Social Science Elective | 3 | 3 |
| Social Science Elective | Elective | 3 | 3 |
| **Total** | **Total** | 15 | 15 |

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

@See Curricular Requirements, page 35.

*Offered Curricular Requirements, page 35.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Economics)

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

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

Requirements in the concentration include: Ec 101 Macroeconomic Principles; Ec 102 Microeconomic Principles; Ec 200 Microeconomic Analysis; Ec 201 Macroeconomic Analysis; and fifteen (15) hours of economic electives. In addition, the business core curriculum requires that Ec 250 Money and Banking and Ec/IR 210 Human Resources also be taken. The major thus requires a total of thirty-three (33) semester hours of economics. The business core curriculum and general University curriculum must also be fulfilled for degree requirements.
## B.S.B.A. (Economics)
### Recommended Sequence of Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
<th>Sem. Hrs</th>
<th>Sem. Hrs</th>
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<td>Ec 102—Microeconomic Principles</td>
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<td>Fi 255—Business Finance</td>
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</table>

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

@See Curricular Requirements, page 35.
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 or every other year to provide the greatest diversification possible. Majors in finance will be offered opportunities to inspect various financial institutions and to meet with professionals in the field.

Specific requirements in the finance concentration include the following courses: Fi 255 Business Finance; Fi 265 Investments; Fi 301 Financial Management; Fi 331 Applied Quantitative Methods for Business; Fi 380 Cases and Problems in Finance; and nine (9) semester hours of upper division finance and approved accounting electives. At least three (3) semester hours must be taken in finance and three (3) semester hours in approved accounting electives.

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

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<tr>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<td>Ec 101—Macroeconomic Principles</td>
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<td>Fi 255—Business Finance</td>
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<td>Fi 301—Financial Management</td>
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<td>Mk 100—Prin. of Marketing</td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>Ec 250—Money and Banking</td>
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<td>BA 280—Legal Environment</td>
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<td>Philosophy Area III</td>
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<td>Fi 265—Investments</td>
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<td>Fi 331—Appl. Quan. Meth. for Bus</td>
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<td><strong>Senior Year</strong></td>
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*Required, unless exempted through a test-out program. See page 35.
@See Curricular Requirements, page 35.
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: 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.
# B.S.B.A. (Industrial Relations)

## Recommended Sequence of Program

### Freshman Year

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<tr>
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*Required, unless exempted through a test-out program. See page 35.

‡See Curricular Requirements, page 35.
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 24 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 352 Data Processing Information Systems, 3 sem. hrs.
- IS 364 COBOL Programming, 3 sem. hrs.
- IS or CS electives, 9 sem. hrs.

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

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

**Recommended Sequence of Program**

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*Required, unless exempted through a test-out program. See page 35.
©See Curricular Requirements, page 35.
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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*Required, unless exempted through a test-out program. See page 35.
@See Curricular Requirements, page 35.
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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* Required, unless exempted through a test-out program. See page 35.
@See Curricular Requirements, page 35.
Departments—
The College of Arts and Sciences

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

Biology (BI)

Staff: DR. TAOFURI, acting chairman; DR. CHAMBERS, DR. CUSICK, DR. FINKE, DR. HEDEEN, FR. PETERS, MR. PETRI
Laboratory Instructors: MRS. CUSICK, MRS. WENDT

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

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

(*) 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

100, GENERAL BIOLOGY I, II. (3) An introductory course treating the essential principles and concepts of plant and animal life: cellular, organismal, and ecological.

101, GENERAL BIOLOGY LABORATORY I, II. (1) Dissection of fetal pig; observations of cells, tissues, behavioral and physiological responses, development, inheritance, and phylogenetic review of plants and animals. Several field trips.

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 I 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 molecular, cellular, and organismal biology, emphasizing the physiology and development of vertebrates. Preparation for most 200-level courses.

*111 GENERAL ZOOLOGY I LABORATORY. (2) The microscopic and gross anatomy of vertebrates, together with physiological studies using the frog and human as examples.


*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.

123
Biology

116 **NUTRITION.** (3) The study of the science of Nutrition and its practical application to life.

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

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

131 **ASCENT OF MAN.** (2) The development of the major concepts that constitute our understanding of nature.

133 **ASCENT OF MAN LABORATORY.** (1) Each semester to accompany BI 180-182. Exercises, experiments, and field trips.

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

### Upper Division Courses

200 **GENERAL BOTANY.** (3) The morphology, physiology, reproduction of representatives of each plant division are studied. Seed plants are stressed. Prerequisites: BI 120-133 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. Prerequisites: 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. Prerequisites: BI 110-113.

222 **IMMUNOLOGY.** (1) An introduction to the specific mechanisms by which the body reacts to foreign biological materials.


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. Prerequisites: BI 120-133 or BI 110-113.

244 **ANIMAL BEHAVIOR.** (2) Relates innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisites: BI 120-133 or BI 110-113.

250 **ECOLOGY.** (3) The relationships between organisms and their living and non-living environments. Prerequisites: BI 120-133 or BI 110-113.

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

280 **TOPICS IN BIOLOGY.** (1-3) Short-term courses designed to explore biological phenomena of current interest. Prerequisites: BI 120-133 or BI 110-113 and permission of the Chairman.

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

300 **GENERAL EMBRYOLOGY.** (2) A description of vertebrate development and an analysis of the mechanisms of development, using vertebrates and invertebrates as examples. Prerequisites: BI 101-113.

301 **GENERAL EMBRYOLOGY LABORATORY.** (2) A microscopic and experimental study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis, emphasizing the vertebrates.

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

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.

340 **BIOLOGICAL BASIS OF ANIMAL BEHAVIOR**. (2) Functions of receptors, central nervous system, and effectors involved in the responses of animals to environmental changes.

341 **BIOLOGICAL BASIS OF BEHAVIOR LABORATORY**. (1) Gross and microscopic structure of adult and developing vertebrate nervous systems. Use of instrumentation to modify the environment and record responses.

360 **VERTEBRATE PHYSIOLOGY**. (2) Contraction, perception, digestion, metabolism, circulation, respiration, coordination and excretion in vertebrates. Prerequisites: BI 110-113, or permission of instructor.

361 **VERTEBRATE PHYSIOLOGY LABORATORY**. (2) Exercises requiring careful preparation of living materials and observation of their functional responses using modern instrumentation.

370 **BIOCHEMISTRY**. (3) Credits (Ch 370).

393 **ZOO'S ARE CLASSROOMS**. (1) Demonstrates how zoos may be used to teach biological principles.

394 **LOCAL RESOURCES FOR TEACHING LIFE SCIENCES**. (2) Demonstrates how museums, nature centers, parks and farms may be utilized to teach biology.

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

396 **METHODS OF BIOLOGICAL RESEARCH**. (1-2) The gathering of experimental data from living organisms and its interpretation. Prerequisite: senior standing and approval of the Chairman.

399 **METHODS OF BIOLOGICAL RESEARCH**. (1-2) A continuation of BI 398 emphasizing experimental design and controls together with the written and oral presentation of scientific reports.

Chemistry (Ch)

Staff: DR. DUBE, chairman; DR. BARKER, DR. GARASCIA, DR. JOHNSON, DR. KLINGENBERG, DR. O'NEILL, FR. THEPE

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

**Lower Division Courses**

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.
### Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>111</td>
<td>GENERAL CHEMISTRY LABORATORY.</td>
<td>1</td>
<td>Practice in the basic operations of chemical laboratory work. Experiments illustrate topics and principles covered in Ch 110. One three-hour period per week.</td>
<td></td>
</tr>
<tr>
<td>112</td>
<td>GENERAL CHEMISTRY II.</td>
<td>3</td>
<td>A continuation of Ch 110. Subjects include aqueous equilibrium, thermodynamics, electrochemistry, and the chemistry of representative elements. Prerequisite: Ch 110.</td>
<td></td>
</tr>
<tr>
<td>113</td>
<td>GENERAL CHEMISTRY II LABORATORY.</td>
<td>2</td>
<td>A continuation of Ch 111. The laboratory work includes qualitative and quantitative inorganic analysis. Two three-hour periods per week. Prerequisite: Ch 111.</td>
<td></td>
</tr>
<tr>
<td>115</td>
<td>GENERAL CHEMISTRY II LABORATORY.</td>
<td>1</td>
<td>Laboratory to accompany Ch 112 emphasizing quantitative measurements.</td>
<td></td>
</tr>
<tr>
<td>116</td>
<td>PRINCIPLES OF CHEMISTRY.</td>
<td>3</td>
<td>A survey of general and organic chemistry for those programs requiring a one semester course.</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>PRINCIPLES OF CHEMISTRY LABORATORY.</td>
<td>1</td>
<td>A laboratory course to accompany Ch 116.</td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>PRINCIPLES OF PHYSICAL CHEMISTRY.</td>
<td>3</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>151</td>
<td>ANALYTICAL CHEMISTRY.</td>
<td>1</td>
<td>Lecture and Laboratory course. Basic concepts. Application of wet and instrumental analytical methods to substances of clinical interest. Prerequisite: Ch 113.</td>
<td></td>
</tr>
<tr>
<td>190</td>
<td>CHEMICAL LITERATURE.</td>
<td>1</td>
<td>An introduction to the nature and use of the chemical literature, general research procedures, andtechnical report writing. Prerequisite: junior standing.</td>
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</tr>
</tbody>
</table>

### Upper Division Courses

<table>
<thead>
<tr>
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<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>PHYSICAL CHEMISTRY I.</td>
<td>3</td>
<td>An introduction to theoretical chemistry with emphasis on thermodynamics and chemical equilibrium. Prerequisites: Ch 112, Mt 120, and Ph 108.</td>
<td></td>
</tr>
<tr>
<td>232</td>
<td>PHYSICAL CHEMISTRY II.</td>
<td>3</td>
<td>A continuation of Ch 230. Chief emphasis is on chemical kinetics and the states of matter. Prerequisite: Ch 230.</td>
<td></td>
</tr>
<tr>
<td>235</td>
<td>PHYSICAL ANALYTICAL LABORATORY I.</td>
<td>1</td>
<td>Measurement techniques applied to chemical systems. One four-hour period per week including lectures on principles of quantitative measurement. Corequisite: Ch 230.</td>
<td></td>
</tr>
<tr>
<td>237</td>
<td>PHYSICAL ANALYTICAL LABORATORY II.</td>
<td>2</td>
<td>Continuation of Ch 235. Two four-hour periods per week. Prerequisite: Ch 235, corequisite: Ch 232.</td>
<td></td>
</tr>
<tr>
<td>239</td>
<td>PHYSICAL ANALYTICAL LABORATORY III.</td>
<td>1</td>
<td>Continuation of Ch 237. One four-hour period per week. Prerequisite: Ch 237, corequisite: Ch 280.</td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>ORGANIC CHEMISTRY I.</td>
<td>3</td>
<td>An introductory course treating the structure, preparation, reactions, and properties of organic compounds. Prerequisite: Ch 112.</td>
<td></td>
</tr>
<tr>
<td>241</td>
<td>ORGANIC CHEMISTRY I LABORATORY.</td>
<td>1</td>
<td>The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: Ch 113.</td>
<td></td>
</tr>
<tr>
<td>242</td>
<td>ORGANIC CHEMISTRY II.</td>
<td>3</td>
<td>A continuation of Ch 240 which extends the treatment of fundamental organic chemistry. Some special topics are included. Prerequisite: Ch 240.</td>
<td></td>
</tr>
<tr>
<td>243</td>
<td>ORGANIC CHEMISTRY II LABORATORY.</td>
<td>1</td>
<td>A continuation of the laboratory work of Ch 241 with increased emphasis on the reactions and synthesis of organic systems. Prerequisite: Ch 241.</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>QUALITATIVE ORGANIC ANALYSIS.</td>
<td>3</td>
<td>The systematic identification of pure organic compounds and of mixtures. Instrumental methods of structure determination are included. Prerequisites: Ch 242, 243.</td>
<td></td>
</tr>
</tbody>
</table>
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 237, 260.

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.

PROBLEMS IN ORGANIC CHEMISTRY. Description as for Ch 290, but work done is in some area of organic chemistry.

PROBLEMS IN INORGANIC CHEMISTRY. Description as for Ch 290, but work done is in some area of inorganic chemistry.

PROBLEMS IN BIOCHEMISTRY. Description as for Ch 290, but work done is in some area of biochemistry.

PROBLEMS IN ANALYTICAL CHEMISTRY. Description as for Ch 290, but work done is in some area of analytical chemistry.

PROBLEMS IN RADIOCHEMISTRY. (See Ch 290-294).

CHEMISTRY SEMINAR. (0) Required of all chemistry majors in junior and senior year.

INTRODUCTION TO RADIOCHEMISTRY. (2) Lecture on basic principles of radiochemistry and the methodology of instrumental techniques.

INTRODUCTION TO RADIOCHEMISTRY LABORATORY. (1) Laboratory course to accompany Ch 320.

PHYSICAL CHEMISTRY III. (2) An introduction to quantum chemistry, kinetic theory, and molecular structure. Prerequisite: Ch 132.

TOPICS IN ORGANIC CHEMISTRY. (2) An extension of fundamental organic chemistry to include more specialized topics not previously considered or extensively treated. Prerequisite: Ch 242.

BIOCHEMISTRY. (3) A lecture course treating the chemistry and biochemistry of carbohydrates, lipids, and proteins. Special topics are included as time permits. Prerequisite: Ch 242.

DIRECTED 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 520.

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.

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

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

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

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

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

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

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

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

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

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

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.

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.

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.

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.

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.

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.

PROBLEMS IN CHEMISTRY. (2) Conferences and directions in library and/or laboratory work. A research paper will be written and an oral examination required.

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, SR. GRAF, DR. MURRAY

(*) 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.

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. The first century of the principate. (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).

331 THUCYDIDES. (3) An in-depth study of fifth-century Greece from the Athenian point of view, and a study of the method, presuppositions, and scope of the historian Thucydides. Text in translation.

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).

371 PLATO: THE REPUBLIC. (3) A careful reading of Plato's Republic in translation to uncover what he said and what he meant and its relevance to our own lives, thoughts, and values.

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)
Clillics

THUCYDIDES. (3-4)

AESCHYLUS. (3)

PLATO: THE REPUBLIC. (3)

HISTORY OF GREEK LITERATURE. (3)

SPECIAL STUDY. Credit to be arranged. Greek poetry.

SPECIAL STUDY. Credit to be arranged. Greek prose.

SENIOR COMPREHENSIVE REVIEW. (2)

Hebrew (He)

Lower Division Courses

ELEMENTARY BIBLICAL HEBREW I. (3)

ELEMENTARY BIBLICAL HEBREW II. (3)

INTERMEDIATE BIBLICAL HEBREW I. (3)

INTERMEDIATE BIBLICAL HEBREW II. (3)

Latin (Lt)

Lower Division Courses

ELEMENTARY LATIN. (3) The ancient Latin language. Syntax, vocabulary and morphology. The skills necessary to read Latin.

INTRODUCTION TO LATIN LITERATURE. (3) A continuation of Lt 101 with readings from simpler Latin texts.

INTERMEDIATE LATIN. (3) For students who have already had some Latin. Review of Latin grammar, syntax and vocabulary with some readings.

CICERO. (3) The De Senectute and/or the De Amicitia.

HORACE: ODES. (3)

VIRGIL: AENEID I-VI. (3)

VIRGIL: AENEID VII-XII. (3)

PLAUTUS AND TERENCE. (3) Selected readings.

Upper Division Courses

HISTORY OF ANCIENT ROME. (3) (Hs 206).

LIVY. (3)

LATIN PROSE STYLE. (3)

CICERO: PRO MILONE. (3)

INTRODUCTION TO A STUDY OF THE LATIN FATHERS. (3)

HORACE: ODES. (3)

VIRGIL: AENEID. (3)

ROMAN COMEDY. (3)

ROMAN ORATORY. (3)

CAESAR. (3)

TACITUS: THE ANNALS. (3)

CICERO: LETTERS. (3)

CICERO: ESSAYS. (3)

HORACE: SATIRES, EPISTLES. (2-3)

CATULLUS. (3)

EARLY CHRISTIAN POETS. (3)
Communication Arts

Staff: FR. FLYNN, chairman; FR. HAGERTY, DR. KING, DR. POTTER

Assisted by: MR. ANTHONY, MR. BENKERT, MR. deBETTENCOURT, MS. DYE, MR. FREDERICKSON, MS. GEMELLI-CARROLL, MS. ILKA, MR. KVAPIL, MS. MIMS, DR. POHLMAN, FR. THEPE

(

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 DICTION. (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.

202 ORGANIZATIONAL COMMUNICATION. (3) The communications function as a management tool in business, industry, and other organizations. Employee communication policy, methods, and techniques in relation to public relations and marketing communications.


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.

*260 PRESENTATIONAL SPEAKING. (3) Preparation and delivery of oral presentations for business and professions. Emphasizes persuasion, evidence, organized sequences, and uses of multimedia aids.

*263 GROUP DISCUSSION. (3) Principles and performance in group functions of leadership and participation. Procedures in decision-making and information-sharing. Study of major discussion forms.

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.
### Communication Arts

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>ART OF THE FILM</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>213</td>
<td>MEDIA AESTHETICS</td>
<td>3</td>
<td>Principles of visual and auditory aesthetics, as applied to motion pictures and television. Use of films, tapes, and slides. Creative project required.</td>
</tr>
<tr>
<td>214</td>
<td>FILM CRITICISM</td>
<td>3</td>
<td>Cultivating criteria for judging films, from viewing, analysis, reviews, and student critiques.</td>
</tr>
<tr>
<td>215</td>
<td>NON-FICTION FILM</td>
<td>3</td>
<td>Documentary techniques of Grierson, Flaherty, Wiseman and others. Methods used in the propaganda films of Riefenstahl and Capra. Student project.</td>
</tr>
<tr>
<td>216</td>
<td>FILM MAKING TECHNIQUES</td>
<td>3</td>
<td>Basic studies in the making of a film—economic, social, technical, planning, shooting, and editing. Students will make short films.</td>
</tr>
</tbody>
</table>

### Radio—Television

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</tr>
</thead>
<tbody>
<tr>
<td>218</td>
<td>FUNDAMENTALS—RADIO-TV</td>
<td>3</td>
<td>History and current developments in broadcasting. Basic technical matters which dictate the shape and form of the medium.</td>
</tr>
<tr>
<td>219</td>
<td>AUDIO PRODUCTION AND TECHNOLOGY</td>
<td>3</td>
<td>Technical and theoretical basis. Projects involving WVXU-FM in learning techniques of tape editing, special effects, commercial production, and documentary production. Lab—WVXU-FM.</td>
</tr>
<tr>
<td>220</td>
<td>BROADCAST ANNOUNCING</td>
<td>3</td>
<td>Career qualifications. Principles, preparation, and delivery of announcements, newscasts, and other projects. Lab work in WVXU-FM and TV studio. Prerequisites: CA 102, 219 or approval of instructor.</td>
</tr>
<tr>
<td>221</td>
<td>VIDEO PRODUCTION AND TECHNOLOGY</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>222</td>
<td>BROADCAST MANAGEMENT</td>
<td>3</td>
<td>Study of station management, organization, and operational techniques. Prerequisite: CA 218.</td>
</tr>
<tr>
<td>223</td>
<td>TV DIRECTING</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>224</td>
<td>ADVANCED TV PRODUCTION</td>
<td>3</td>
<td>Theories and techniques of control-room directing: staging, pacing, acting, dramatic effect, audience influence, and analysis of professional productions. Prerequisite: CA 221.</td>
</tr>
<tr>
<td>225</td>
<td>RADIO PROGRAMMING</td>
<td>3</td>
<td>The practical and theoretical world of program operation at a radio station. Techniques of format establishment, public affairs programming, FCC obligations. Prerequisite: CA 218.</td>
</tr>
<tr>
<td>227</td>
<td>CONTINUITY WRITING</td>
<td>3</td>
<td>Announcement and program writing for radio and television. Broadcast styles, scripts, and formats. Lab—WVXU-FM. Prerequisite: En 101.</td>
</tr>
<tr>
<td>229</td>
<td>TV TECHNIQUES FOR TEACHERS</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>230</td>
<td>SPECIAL EFFECTS: TV PRODUCTION</td>
<td>3</td>
<td>Application of film, graphics, animation, lighting, studio and electronic effects to production of programs. Lab work in campus TV Studio. Prerequisite: CA 221.</td>
</tr>
<tr>
<td>232</td>
<td>RADIO LAB</td>
<td>1</td>
<td>Lab #1. Experience under station WVXU-FM operation conditions. Prerequisites: CA 218, 219, 221.</td>
</tr>
<tr>
<td>233</td>
<td>TELEVISION LAB</td>
<td>1</td>
<td>Lab #2. Experience in TV Studio for the R-TV area. Prerequisites: CA 218, 219, 221, 231.</td>
</tr>
<tr>
<td>234</td>
<td>BROADCAST LAB</td>
<td>1</td>
<td>Advanced Lab #3 in R-TV area. Prerequisites: CA 218, 219, 221, 232, 233.</td>
</tr>
</tbody>
</table>
Communication Arts

Broadcast Journalism

*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.


241 RADIO-TV NEWS WRITING. (3) R-TV journalism. Genesis and development of broadcasting news. Skill development in news writing techniques, using the typing lab. Prerequisite: CA 239 and satisfactory grade in typing test.


Public Relations

This area includes CA 237, 238, 239, 241, 242, 243, and the following PR courses:

*251 PUBLIC RELATIONS IN MODERN SOCIETY. (3) Public relations in the modern world. Nature of communication and public opinion, image concept, and techniques. Prerequisite: CA 239.

252 ADVANCED PUBLIC RELATIONS. (3) Public relations for business, urban affairs, financial relations, trade associations, professional societies, labor unions, non-profit organizations, and government. Prerequisite: CA 251.


Communication—Marketing

This area comprises certain restricted courses in CA areas and courses in marketing. See CA program descriptions in CA office.

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)
Computer Science

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.

Educational Media

290 AUDIOVISUAL COMMUNICATION. (3) (Ed 290).

291 VISUAL COMMUNICATION DESIGN. (3) (Ed 291).

292 ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS. (3) (Ed 292).

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.

113 FORTRAN PROGRAMMING. (3) Introduction to programming in FORTRAN-IV. Non-scientific applications stressed. Prerequisite: Secondary math proficiency, cf. page 35. (IS 368).

124 "BASIC" PROGRAMMING. (1) (Replaces CS/Mt 125.) Introduction to the Xavier time-sharing system, elements of the "BASIC" language, programming elementary problems. Prerequisite: Secondary math proficiency, cf. page 35. Not both CS 124 and IS 100 may be taken for credit. (Mt 124).

126 INTRODUCTION TO COMPUTING. (3) In-depth introduction to computer science and programming. Development of algorithms. Structured programming. Corequisite: CS 124 or equivalent. (Mt 126).

132 COBOL PROGRAMMING. (3) Introduction to programming in COBOL. Business applications. Prerequisite: Secondary math proficiency, cf. page 35. CS 124 or equivalent or consent of instructor. (IS 364).


197 SPECIAL READINGS. Credit to be arranged.

235 TOPICS IN COMPUTERS AND LANGUAGES. (3) Designed primarily for high school teachers. Survey of computer organization, characteristics of high level languages, basic elements of systems programming. Prerequisite: Calculus. (Mt 235).

252 ADVANCED COBOL. (3) Substantial COBOL programming assignments. In-depth study of file management. Prerequisite: CS 132. (IS 365).

255 ASSEMBLER LANGUAGE. (3) Hardware structure and assembler language programming. Number systems, data representation and movement, arithmetic, program control, dumps. Prerequisite: CS 124 or consent of instructor. (Mt 255, IS 360).

256 ASSEMBLER PROJECT. (1-2) Additional assembler features. Substantial programming assignment in assembler language. Project report. Prerequisite: CS 255. (Mt 256, IS 361).

265 DISCRETE STRUCTURES. (3) Set algebra, mappings and relations, algebraic structures, Boolean algebra, propositional logic, applications. Prerequisite: Programming and mathematical aptitude. (Mt 265).
325 **DATA STRUCTURES.** (3) Linear lists, strings and arrays, trees and graphs, storage structures, allocation and collection, symbol tables, sorting. Prerequisite: CS 126. (Mt 325, IS 356).

335 **OPERATING SYSTEMS.** (3) Computer architecture. Macro processing, loaders, process control, memory management, I/O processors, sharing, privacy, and protection. Prerequisites: CS 255, 325. (Mt 335).

352 **DATA PROCESSING INFORMATION SYSTEMS.** (3) The design of actual Information processing systems with emphasis on distributed processing systems. Student project. Prerequisite: COBOL and consent of instructor. (IS 352).

355 **PROGRAMMING LANGUAGES.** (3) Discussion of grammars, syntax, semantics, and the functions of a compiler. Languages such as FORTRAN, COBOL, PL/I, and SNOBOL will be used to illustrate key concepts. Prerequisites: CS 255, 325. (Mt 355).

358 **PRINCIPLES OF DATA BASE MANAGEMENT.** (3) Basic concepts of data base management and information storage and retrieval. Security, automatic document retrieval, inverted files, and uniform classification. Logical and physical organization of data bases, schemas, data base administration. Prerequisite: CS 126 and consent of instructor. (IS 358).

375 **SIMULATION.** (3) Continuous and discrete simulation techniques. Prerequisites: CS 126, 138. (Mt 375).

390 **SENIOR PROJECT.** (3) Completion of a significant computer project. Design, verification and documentation.

395 **SEMINAR.** (1) Current topics in computer science. Prerequisite: consent of instructor.

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**Economics (Ec)**

Staff: DR. KUZINA, chairman; DR. H. BRYANT, DR. DONNELLY, DR. HAILSTONES, MS. HARMON, DR. MARMO, DR. MASTRIANNA, FR. PETERSON, MR. ROTHWELL, DR. SCHULTZ, DR. ZIMMERMAN

Assisted by: DR. FREIBURG, MS. GUBSER, DR. HEHMAN, DR. TUREL, DR. WEBB

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

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**Lower Division Courses**

101 **MACROECONOMIC PRINCIPLES.** (3) Economic activity of economy as a whole. Topics covered include national income, employment, inflation, interest rates, and economic stability.

102 **MICROECONOMIC PRINCIPLES.** (3) Market forces of supply and demand in allocating the nation's resources and securing efficiency in their use. Economic behavior of consumers, firms, and resource owners. Prerequisite: Ec 101.

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**Upper Division Courses**

200 **MICROECONOMIC ANALYSIS.** (3) A thorough study of consumer behavior and market demand; production, costs, and the theory of the firm; and competition under different market structures. Prerequisite: Ec 102.

201 **MACROECONOMIC ANALYSIS.** (3) Theoretical foundation to understanding of GNP, inflation, employment and economic growth. Controversies in modern macro theory. Prerequisites: Ec 101, 102.

202 **HISTORY OF ECONOMIC THOUGHT.** (3) Ideas and theories of major contributors to economic thought. Economic schools and movements. Prerequisites: Ec 101, 102.

210 **HUMAN RESOURCES.** (3) (IR 210, Mg 210).

222 **ECONOMETRICS.** (3) The construction and testing of economic models. Emphasis will be given to linear regression techniques, special problems in estimating economic relationships, and interpretation of results. Prerequisites: Ec 101, 102, Mt 146 or BA 270.
Economics

223 INTRODUCTION TO MATHEMATICAL ECONOMICS. (3) Synthesis of mathematical techniques and economic theory. Micro and macroeconomic theory from a mathematical perspective, linear programming, and dynamic models. Prerequisites: Ec 200, 201, Mt 150.

240 ECONOMIC GEOGRAPHY. (3) Location of economic activity and factors affecting or affected by such location. Economics of natural resources.

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) Principles of money, credit and banking, including monetary theory and functions of a central bank, such as the Federal Reserve System. Prerequisite: Ec 101. (Fi 250).

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 COMPARATIVE ECONOMIC SYSTEMS. (3) The market system, Marxian and socialist theories. Christian social thought. Prerequisites: Ec 101, 102.

325 INDUSTRIAL ORGANIZATION. (3) Basic conditions, market structures, conduct and performance of American industry. Public policy as related to the problems of bigness and monopolization. Prerequisite: Ec 200.

330 ECONOMICS AND PUBLIC POLICY. (3) Examination of policies to promote competition. Analysis of mergers, patents, and restrictive business practices. Study of regulated industries and public enterprise. Prerequisite: Ec 102.

335 PUBLIC FINANCE. (3) Role of government in the economy and an analysis of the principles of government expenditure and taxation. Prerequisite: Ec 200.

344 ECONOMICS OF INTERNATIONAL RELATIONS. (3) Course in international economics for non-economics majors. Prerequisites: Ec 101, 102.


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. Emphasis on forecasting, demand and cost estimation, pricing techniques. Prerequisites: Ec 102, Mt 150.

395 SEMINAR: 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.

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).

539 **SEMINAR: CURRENT ECONOMIC PROBLEMS.** (3) (BA 539).

612 **SEMINAR: COLLECTIVE BARGAINING.** (3) The historical development of collective bargaining. Problems that arise in the day-to-day administration of the labor-management agreement. Prerequisite: BA 514. (BA 612).

**Education (Ed)**

*Staff:* DR. PARTRIDGE, chairman; DR. ANDERSON, MR. BAKER, MS. BRUNING, DR. N. BRYANT, DR. DAILY, MS. DRENNAN, DR. FRY, DR. GAFFNEY, DR. HANNA, DR. HELMES, DR. KLEIN, DR. KRINER, DR. LOZIER, DR. MAYANS, DR. McCOY, MS. McDERMOTT, DR. POHLMAN, DR. PRUDEN, DR. RINSKY, DR. RIORDAN, MS. ROTHSCILD, MR. SCHEURER, DR. SCHWEIKERT, MR. SULLIVAN, DR. VOLUSE, DR. WUBBOLDING.


(*) 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.


*142 **HUMAN GROWTH AND DEVELOPMENT II.** (3) Human growth and learning. Evaluation, observation skills, behavior problems, exceptionality. Includes field experiences.

### Upper Division Courses

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

201 **SECONDARY METHODS.** (3) Methodology applicable to high school teaching in general. Methods best suited to each of the major content fields. Materials fee: $10.00.

204 **STUDENT TEACHING (ELEMENTARY).** (6) Laboratory experience under the supervision of a critic teacher. One semester. Ed 304 is required concurrently. FOR UNDERGRADUATE CREDIT ONLY.

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


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

212 **CLINICAL EXPERIENCES (ELEMENTARY).** (1) (See Ed 211 for description.)

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.
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.

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. Prerequisite: Ed 214.

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

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

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

CHILDREN'S LITERATURE. (3) The various genres of children and adolescent literature changes. Using literature in the creative classroom.

ADOLESCENT LITERATURE. (3)

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

DEVELOPMENTAL PSYCHOLOGY. (3) (Ps 231).

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

ADOLESCENT PSYCHOLOGY. (2-3) (Ps 233).

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

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

SOCIAL PSYCHOLOGY. (2) (Ps 261).

CRIME AND PERSONALITY. (3) (Cr 566, Ps 266).


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

EDUCATING EXCEPTIONAL CHILDREN. (2) Instruction and curriculum. Placement, planning, implementation, and evaluation of the instructional program. Classroom management.

MENTAL HYGIENE. (2) (Ps 274).


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

WORKSHOP: CLASSROOM USE OF EDUCATIONAL TV. (2) (CA 284, Ed 614).

AUDIOVISUAL COMMUNICATION. (3) (CA 290).

VISUAL COMMUNICATION DESIGN. (3) (CA 291).

ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS. (3) (CA 292).

INTRODUCTION TO ELEMENTARY EDUCATION. (3) Considers elementary school in school system and society and relates curriculum thereto. Classroom observations.

ELEMENTARY METHODS AND MATERIALS: SCIENCE. (2) Integrated course in science. Prerequisite: Ed 300. Materials fee: $5.00.

ELEMENTARY METHODS AND MATERIALS: SOCIAL STUDIES. (2) Prerequisite: Ed 300. Materials fee: $5.00.

SEMINAR: PROFESSIONAL PROBLEMS IN MONTESSORI ELEMENTARY EDUCATION. (3) Must be taken in conjunction with Ed 357 by undergraduate students.
304 SEMINAR: PROFESSIONAL PROBLEMS IN ELEMENTARY EDUCATION. (3) Must be taken in conjunction with Ed 204.

305, KINDERGARTEN METHODS AND MATERIALS I, II. (2,2) Two semesters. Pre-school children's physical, intellectual, social, and emotional development. Current research, materials, activities, and experiences appropriate for kindergarten level. Classroom observations and/or lab experiences. Individual development of materials.

307 ELEMENTARY METHODS AND MATERIALS: LANGUAGE ARTS AND LINGUISTICS. Prerequisite: Ed 300. Materials fee: $5.00.

313 ART IN THE ELEMENTARY SCHOOL. (1) Taken concurrently with Ed 314.

314 MUSIC IN THE ELEMENTARY SCHOOL. (1) Methods and materials used in elementary school instruction. Students must implement various techniques. Taken concurrently with Ed 313.


318 LINGUISTICS FOR TEACHERS. (3) The English language as it affects reading/language arts. Practical applications. Covers phonology, morphology, syntax, grammar, and language change.

319 EARTH SCIENCE FOR TEACHERS. (2) (Elementary teachers). Content and methodology. Table-top experiments. Rocks, minerals, crystalline substances, stratified rocks, sedimentation, landforms, and processes.

324 TEACHING MODERN LANGUAGE IN THE ELEMENTARY SCHOOL. (3)

331 REFERENCE SERVICE. (3) Bibliographical and reference materials in subject fields. Training and practice in solving questions arising in reference services.


340 DRUG COUNSELING. (2) Drug culture; counseling the user; family counseling; crisis intervention; legal and ethical responsibilities of the counselor.


351 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH. (3)

353 MONTESSORI MATERIALS OVERVIEW. (3)

354 ADVANCED MONTESSORI MATERIALS OVERVIEW I, II. (6)

356 MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES: ELEMENTARY GRADES. (3)

357 MONTESSORI ELEMENTARY INTERNSHIP I. (3, 6) Undergraduates must take this course for 6 semester hours.

358 MONTESSORI ELEMENTARY INTERNSHIP II. (3)

365 COACHING GOLF. (2)

366 COACHING WRESTLING. (2) Elective open to upper division students only.

367 COACHING TUMBLING AND GYMNASTICS. (2) Open to upper division students only.

368 COACHING FOOTBALL. (2)

373 COACHING BASKETBALL. (2)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>374</td>
<td>COACHING BASEBALL</td>
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<td>375</td>
<td>COACHING TRACK AND FIELD</td>
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<td>376</td>
<td>THEORY OF OFFICIATING</td>
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<td>TESTS AND EVALUATION IN PHYSICAL EDUCATION</td>
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<tr>
<td>423</td>
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Education

425 CINCINNATI’S MOVERS AND SHAKERS. (2) (Hs 425, Po 425, So 425).
426 THE AMERICAN FAMILY: WILL IT SURVIVE? (2) (So 426).
427 ART AND IMAGINATION: A WORKSHOP. (2)
433, THEORIES OF PERSONALITY I, II. (2-3) Each semester. Prerequisites: 12 semester
434 hours in psychology. (Ps 433, 434).
439 SURVEY: LEARNING AND BEHAVIOR DISORDERS. (2) (Ed 639). FOR
UNDERGRADUATE CREDIT ONLY.
440 INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING: EXCEPTIONAL
CHILDREN. (2) (Ed 640). FOR UNDERGRADUATE CREDIT ONLY.
441 METHODS AND MATERIALS: EXCEPTIONAL CHILDREN. (2) (Ed 641). FOR
UNDERGRADUATE CREDIT ONLY.
443 COUNSELING PARENTS OF EXCEPTIONAL CHILDREN. (2) (Ed 643). FOR
UNDERGRADUATE CREDIT ONLY.
444 EARLY CHILDHOOD: EXCEPTIONAL CHILDREN. (2) Identification and assessment of
pre-school and early primary age handicapped children. Curriculum modifications.
Methods and materials for education.
445 SPEECH AND LANGUAGE DEVELOPMENT. (2) Acquisition, development and
problems of speech and language. Assessment, remediation, and educational roles.
446 EDUCATION OF THE MODERATELY, SEVEREY, AND PROFOUNDLY RETARDE. (2) (Ed 746). FOR UNDERGRADUATE CREDIT ONLY.
447 TEACHING PRACTICUM: MODERATELY, SEVERELY, AND PROFOUNDLY RETARDE. (2) (Ed 747). FOR UNDERGRADUATE CREDIT ONLY.
448 TEACHING PRACTICUM: LEARNING AND BEHAVIOR DISORDERS. (2) (Ed 648). FOR
UNDERGRADUATE CREDIT ONLY.
454 MONTESSORI METHODS AND MATERIALS I. (3)
455 MONTESSORI METHODS AND MATERIALS II. (3)
456 MONTESSORI CURRICULUM DESIGN AND TEACHING STRAT.: PRE-PRIMARY. (3)
457 MONTESSORI PRE-PRIMARY INTERNSHIP I, II. (3, 3) Two semesters.
460 UNIVERSITY OF CINCINNATI CONSORTIUM
461 MIAMI UNIVERSITY CONSORTIUM
462 ST. THOMAS INSTITUTE CONSORTIUM
464 COLLEGE OF MOUNT ST. JOSEPH CONSORTIUM
465 THOMAS MORE COLLEGE CONSORTIUM
466 HEBREW UNION COLLEGE CONSORTIUM
467 ATHENAEUM CONSORTIUM
468 NORTHERN KENTUCKY UNIVERSITY CONSORTIUM
470 BASIC AQUATICS. (1)
471 ADVANCED AQUATICS. (2)
472 LIFE SAVING. (2)
473 WATER SAFETY. (2)
474 COACHING RACQUET BALL, SQUASH, BADMINTON. (2)
476 COACHING SOCCER. (2)
Education

480 SPECIAL WORKSHOPS, SEMINARS, INSTITUTES. (1-6) As designated. Courses will be specified as to title when offered.

488 HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (Cr 488, Ps 488, So 488).

497 CHALLENGES FOR THE 80’s. (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.

502 HISTORY OF AMERICAN EDUCATION. (3)

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 operable 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.

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, diagnosis, 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. Seventy-five clock hours in-school contact with a school counselor.

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

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

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

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

MIDDLE SCHOOL CURRICULUM. (2) Varying patterns in middle school curriculum; educating the early adolescent; age range and characteristics of middle school pupils; problems and potential of the middle school.

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

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

PROFESSIONAL NEGOTIATIONS IN EDUCATION. (2)

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

ADMINISTRATION OF PUPIL PERSONNEL SERVICES. (2-3) Duties and functions involved in administering pupil personnel services and in pupil accounting. Responsibilities of the director of pupil personnel. Systematized records management.

SCHOOL PUBLIC RELATIONS. (2) Relations of school and community. Effective use of media of public relations—press, radio, television.


ADMINISTRATION OF STAFF PERSONNEL. (2) Staff personnel program: hiring, fringe benefits, salary schedules, professional negotiations. Prerequisites: Ed 505 and Ed 543 or equivalent.


SCHOOL BUILDINGS. (2) Improvement of the learning environment through proper utilization of building facilities. Sites, structures, equipment.

ADMINISTRATIVE PRACTICUM. (2) Planned field experience for students seeking administrative certification. Only students who meet University requirements may register. Registration by reservation only. Prerequisites: Ed 505, 541 or 542, 543, and 544 or 545 (or 660).

MIDDLE SCHOOL ADMINISTRATION. (2) Organization and administrative aspects of middle schools. Basic characteristics of a middle school; implementation of these characteristics. Problems and solutions.

PSYCHOLOGICAL AND ACHIEVEMENT TESTS. (2-3) Group tests. Testing procedures. Rationale of intelligence, aptitude, achievement, interest, and personality tests. Selection and evaluation of group tests. (Ps 279).

PSYCHOPATHOLOGY. (2) (Ps 580).

INDIVIDUAL TESTS OF INTELLIGENCE. (4) Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence. (Ps 582).

HUMANISTIC PSYCHOLOGY. (3) (Ps 287).

ADMINISTRATION OF SCHOOL ATHLETICS. (3) Investigation and discussion of current problems and policies pertinent to administration of school athletics.

LEADERSHIP IN OUTDOOR EDUCATION. (3) Consideration is given to settings for outdoor education, school camp functions, and administration. Emphasis on group and individual camping techniques.
592 **ADMINISTRATION OF INTRAMURAL ACTIVITIES.** (3) Treatment of administrative problems, policies, and procedures involved in intramural activities as applied to school systems.

593 **PREVENTION AND CARE OF ATHLETIC INJURIES.** (3)

595 **ADMINISTRATION OF COMMUNITY RECREATION.** (3) Structure and principles as they are related to the organization and administration of school and community recreational programs.

596 **ADMINISTRATION OF PHYSICAL FITNESS PROGRAMS.** (3) Components. Organizing and administering a functional physical fitness program for sports and physical education. The individual. Physical education tests.

597 **TRENDS: PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS.** (3)

600. **SPECIAL WORKSHOPS, INSTITUTES, SEMINARS, INTERSESSIONS.** (1-6) Courses will be specified as to title when offered. Those listed below regularly recur. Course numbers, titles, and descriptions of courses not listed are available upon request from the Dean of the Summer Sessions.

605 **COMPETENCY BASED EDUCATION.** (2)

608 **GATB TRAINING.** (1-2) Fee: $25.00.

609 **RESOURCES COORDINATION LABORATORY IN GUIDANCE.** (2) Materials fee: $6.00.

612 **CREATIVE ARTS.** (2)

613 **READING: MASTERY LEARNING.** (2)

614 **WORKSHOP: CLASSROOM USE OF EDUCATIONAL TELEVISION.** (2) (CA 284).

615 **WORKSHOP: GROUP DYNAMICS.** (2) Materials fee: $12.00.

616 **INDIVIDUALIZED INSTRUCTION.** (2) Fee: $5.00.

618 **GROUP TESTING: THEORY AND PRACTICE.** (2) Fee: $10.00.

620 **ALCOHOL EDUCATION.** (2)

621 **WORKSHOP: SPECIAL EDUCATION.** (2)

622 **WORKSHOP: COACHING BASKETBALL.** (2)

623 **WORKSHOP: OUTDOOR EDUCATION.** (2)

624 **WORKSHOP: COACHING FOOTBALL.** (2)

627 **WORKSHOP: COMMUNITY RESOURCES.** (2)

628 **ALTERNATIVE EDUCATION.** (2)

629 **HUMANISTIC MANAGEMENT.** (2-3) (BA 645).

630, **ISSUES: SCHOOL COUNSELORS I, II.** (2-3) Each semester.

631

632 **INTRODUCTION TO REALITY THERAPY.** (2)

635 **GUIDANCE AND DISCIPLINE.** (2) Approaches to discipline. Discipline and punishment. Current theories concerning discipline are reviewed that are helpful to teachers, counselors, and administrators.

636 **CAREER DEVELOPMENT AND INFORMATION SERVICES.** (2) Vocational choice theories. Sources of occupational information. Career education models related to career development programs in various settings.

637 **GUIDANCE INFORMATION FOR HIGHER EDUCATION.** (2)

638 **WORKSHOP: LEARNING DISABILITIES.** (2)

639 **SURVEY: LEARNING AND BEHAVIOR DISORDERS.** (2) The exceptional child: developmental disabilities and handicapping conditions, etiology, classification systems, problems of adjustment.

640 **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN.** (2) Instructional models for exceptional children. Materials, practical application. Prerequisite: Ed 639.
641 ADVANCED METHODS AND MATERIALS: EXCEPTIONAL CHILDREN. (2)
Prerequisite: Ed 640.

642 INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING: EXCEPTIONAL


644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS. (3) (Ps 644, BA 644).

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 TEACHING PRACTICUM: LEARNING AND BEHAVIOR DISORDERS. (2-3) Sixty to ninety clock hours of supervised teaching experience with children having handicapping conditions. Placements include public and private schools, agencies, orphanages, state institutions. Final course in the program. Open only to certified teachers. By reservation only. (Ps 648).

649 TEACHING INTERNSHIP: LEARNING AND BEHAVIOR DISORDERS. (4-6) Same as Ed 648 but more extensive and in depth. Continues for one full semester. By reservation only. (Ps 649).

651 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH. (3) Seminar. Philosophy, historical development, contemporary critique, and current methodology. Classroom observation. Varieties of resources.

652 CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT. (3) The preschooler. Current theory and research are related to Maria Montessori's concept of the child. (Ps 652).


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 I: PRE-PRIMARY GRADES. (3) Description same as Ed 660 with emphasis on the pre-primary grades.

657 CURRICULUM DESIGN AND TEACHING STRATEGIES II: PRIMARY GRADES. (3)

658 MONTESSORI INTERNSHIP I. (3) Two semesters.

659 MONTESSORI INTERNSHIP II. (3)

660 CURRICULUM DESIGN AND TEACHING STRATEGIES. (3) Elementary and secondary school curriculum as personal and social environments and constructs within a complex society. Appropriate teaching strategies. Examining personal/professional attitudes, practices, values, roles, goals. Evaluation.

661 CURRICULUM DESIGN AND TEACHING STRATEGIES: ELEMENTARY. (3) Description same as Ed 660 except limited to elementary teachers.

662 CURRICULUM DESIGN: PRACTICUM. (3-6) Instructional systems' concepts in school
Education


663 WORKSHOP: CURRICULUM DESIGN AND TEACHING STRATEGIES. (6) Same as Ed 660-662 combined and given as one course in summer. Theory and pracicum 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.

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

668 INTERNSHIP: SCHOOL SOCIAL WORK. (6) By reservation only.


671 READING IN THE CONTENT AREAS. (2) Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary content reading.

672 NEW THEORIES IN TEACHING READING. (2) Sociological, psychological, and educational analysis of new trends. Objectives, curriculum planning, organizational plans, and instructional materials. Interrelationship of general reading skills and content-reading study skills.

673 SUPERVISION OF READING PROGRAMS. (2) The role of the Reading Supervisor at all levels. Curriculum design for planning reading programs at different levels and in content areas. Evaluation of reading programs and personnel. Prerequisite: two courses in reading.

678 DIAGNOSIS AND CORRECTION OF READING DISABILITIES. (3) Factors associated with reading problems. Diagnostic tests and remedial procedures. Materials fee: $10.00. Prerequisite: Ed 214 or 215. (Ps 678).

679 PRACTICUM IN READING. (3) Supervised practice in remedial and developmental reading. Laboratory fee: $15.00. Prerequisite: Ed 678. By reservation only.

681 TEACHING THE TALENTED AND GIFTED. (3)

682 PRACTICUM: STUDENT DEVELOPMENT SERVICES. (2)

683 ADULT LEARNING. (3) Needs and characteristics of adult learner. Preferred learning style, personal experiences, human resources, change.

684 PERSONNEL TRAINING, EDUCATION AND DEVELOPMENT. (3) (BA 684).

685 ORGANIZATIONAL COMMUNICATION. (3) (BA 685).

688 RESEARCH: HISTORY AND PHILOSOPHY OF EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.

689 RESEARCH: ADMINISTRATION. (1-2) Individual research. Prerequisite: Ed 507.

690 RESEARCH: SECONDARY EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.

691 RESEARCH: ELEMENTARY EDUCATION. (1-2) Individual research. Prerequisite: Ed 507.

692 RESEARCH: GUIDANCE. (1-2) Individual research. Prerequisite: Ed 507.

693 RESEARCH: READING. (1-2) Individual research. Prerequisite: Ed 507.

694 RESEARCH: PSYCHOLOGY. (1-2) Individual research. Prerequisite: Ed 507.

695 RESEARCH: SPECIAL AREA. (1-2) Individual research in any special area to be specified. Prerequisite: Ed 507.

697 TUTORIAL STUDY. (2-6) Credit by arrangement.
698 SPECIAL STUDY. (2-3) Credit to be arranged. Special reading and directed study for advanced students.

699 MASTER'S THESIS. (6) For students desiring a program leading to the degree of Master of Arts.

700 ADMINISTERING THE SCHOOL READING PROGRAM. (1-3)

707 WORKSHOP: ADMINISTERING CATHOLIC SCHOOLS. (2)

708 SCHOOL DESEGREGATION. (2)

709 IMPLEMENTING A HANDS-ON READING PROGRAM. (2)

711 EXCEPTIONALITIES IN THE 80's. (2)

712 CAREER EDUCATION: EXCEPTIONAL CHILDREN. (2)

715 ADVANCED GROUP DYNAMICS. (2)

717 COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS. (1) (Ps 717).

718 READING DYNAMICS FOR THE 80's I, II. (1, 1)

719 TEACHING READING INFORMALLY. (2)

744 WORKSHOP: LANGUAGE DEVELOPMENT FOR THE EXCEPTIONAL CHILD. (2)

748 CLASSROOM MANAGEMENT. (2)

760 PROBLEMS IN EDUCATIONAL MANAGEMENT. (2-4) Specific problems in educational administration for in-service administrators.

English (En)

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

Assisted by: MR. BOLTON, MR. CAHILL, MS. CROSSLAND, MS. JOHNSON, DR. JONES, MR. KORAL, DR. MURRAY, DR. SCHWEIKERT

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

Lower Division Courses

101 ENGLISH COMPOSITION. (3) Instruction in grammar, usage, diction, organization, and style. Frequent short writing assignments are required.

115 COMPOSITION AND LITERATURE I. (3) Non-fiction and narrative. Emphasis on developing student's writing skills. Recommended for students who already have acquired the basic skills of writing. Required of English majors.

116 COMPOSITION AND LITERATURE II. (3) Poetry and drama. Emphasis on developing student's writing skills. Recommended for students who have already acquired the basic skills of writing. Required of English majors.

121 STUDIES IN POETRY. (3)

122 STUDIES IN DRAMA. (3)

124 STUDIES IN FICTION. (3)

125 STUDIES IN SATIRE. (3)

127 INTRODUCTION TO LITERATURE. (3)

128 STUDIES IN AFRO-AMERICAN LITERATURE. (3)

135 STUDIES IN SHAKESPEARE. (3)

Upper Division Courses

200 ADVANCED COMPOSITION FOR TEACHERS. (3) Current theories on the teaching of writing in junior and senior high school. Instruction and practice in expository writing. (Ed 200).
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<td>363</td>
<td>VICTORIAN LITERATURE SINCE 1860.</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Poetry, non-fictional prose, and</td>
<td></td>
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<td></td>
<td>the novel.</td>
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**English**

*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 COLONIAL AMERICAN LITERATURE: 1620-1820. (3)

*381 THE AMERICAN RENAISSANCE: 1835-1865. (3) Textual and cultural study of the Transcendentalists and authors of the American romance.

*382 AMERICAN REALISM: 1865-1900. (3) Textual and cultural study of the realistic impulse in American poetry and fiction.

*383 AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1900-1930. (3) American poetry, drama, and fiction in the context of the revolution in Western art.

*386 CONTEMPORARY AMERICAN FICTION. (3)

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

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

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)

571 MODERN BRITISH POETRY. (3)

572 MODERN DRAMA. (3)

573 CONTEMPORARY DRAMA. (3)

581 THE AMERICAN RENAISSANCE: 1835-1865. (3)

582 AMERICAN REALISM: 1865-1900. (3)

583 AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1900-1930. (3)

596 CONTEMPORARY AMERICAN FICTION. (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)**

215 WRITING FOR THEATRE. (3)

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 movement, tempo rhythm and line reading.
细艺

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 characterization. Prerequisite: 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.

102 STILL LIFE DRAWING. (3) A realistic approach to drawing still life, using pen-and-ink, charcoal, pastel, and pencil. Student is given an art history background of the subject using slides and museum visits.

103 FIGURE DRAWING. (3) A realistic approach to drawing the human figure from the live model, using examples from art history to define and inspire the students' problems and solutions.

104 PORTRAIT DRAWING. (3) Drawing the human face from the live model, using charcoal, pen-and-ink, pastel, and pencil. Lectures and discussions are documented with slides from art history.

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

106 PORTRAIT PAINTING. (3) Painting in pastel and acrylic from the live model. Lectures are supplemented by discussion, slides, and visits to the art museums.

107 STILL LIFE PAINTING. (3) A realistic approach to painting still lifes, using acrylic and pastel. Methods of approaching the subject are discussed in an art history context.

108 DESIGN PROBLEMS. (3) The basic principles of art in the solution of black-and-white design problems that complement those handled in the Language of Color and Design.

109 LANGUAGE OF COLOR AND DESIGN. (3) A studio course, which means that student performance in creating is emphasized rather than verbal communication. The basic elements of visual art and the principles which govern their use are illustrated in lectures using slides and in museum visits.

Upper Division Courses

201 HISTORY OF ART I. (3) Prehistoric times to the Renaissance. 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).

219 LANGUAGE OF ART I. (3) Art appreciation, covering realism and classicism in a comparative context. Films, slides, and museum visits are employed.

220 LANGUAGE OF ART II. (3) Art appreciation, covering romanticism, with its off-shoots, surrealism and expressionism. Films, slides, and museum visits are employed.

221 CLASSICAL HUMANITIES. (3) Greek literature, philosophy and art on a comparative basis. Sources and influences from Egypt, Crete and Mesopotamia.
INTRODUCTION TO VISUAL CONCEPTS. (3) Knowledge and understanding of the integrity of art in human life. Man's relationship to his whole environment. Design.

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

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

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.

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.

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.

MUSIC: 1600-1900. (3) A historical survey of the music of the seventeenth, eighteenth, and nineteenth centuries, using musical examples.

CONTEMPORARY MUSIC. (3) A survey of the music of the twentieth century. A historical approach is used, giving the cultural background of the period.

HISTORY AND LITERATURE OF MUSIC I. (3) The history of music from ancient times to the Baroque Period, illustrating and describing musical forms and principles.

HISTORY AND LITERATURE OF MUSIC II. (3) The history of music from the Baroque Period to the present time. Using examples to document forms such as the symphony, grand opera, etc., music is shown to be an outgrowth of the cultural fabric that produced it.

LANGUAGE OF MUSIC I. (3) A music appreciation class. What to listen for in music is emphasized by the playing of musical examples and by the presentation and definition of the principles and elements of music. Romantic music, including Schubert, Wagner, Strauss, and Brahms is covered.

LANGUAGE OF MUSIC II. (3) A continuation of Language of Music I, again using musical examples, but covering ancient, medieval, Renaissance, Baroque, Rococo, Impressionism, Expressionism, and contemporary music.

DIRECTED STUDY. Credit by arrangement.

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.

World Geography. (3) Physical and cultural regions of the world. Human systems, patterns, and diffusions. Man-environmental relationships.

GEOGRAPHY OF EUROPE. (3)

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

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

DIRECTED STUDY. Credit to be arranged.
History (Hs)

Staff: DR. SIMON, chairman; FR. BENNISH, DR. DEVINE, DR. FORTIN, DR. GOODMAN, DR. GRUBER, FR. LAROCCA, MR. McVAY

Assisted by: DR. PATTON, DR. WAKSMUNDSKI

(*) 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)
135 EUROPE, 1500-1848 I. (3)
136 EUROPE, 1500-1848 II. (3) A continuation of Hs 135.
139 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.
143 AMERICAN THOUGHT AND CULTURE I. (3) American intellectual history.
144 AMERICAN THOUGHT AND CULTURE II. (3) A continuation of Hs 143.
147 CIVILIZATION ON TRIAL I. (3) Changing patterns of law, justice, and authority in the Western tradition as seen through famous trials.
148 CIVILIZATION ON TRIAL II. (3) A continuation of Hs 147.
152 LATIN AMERICA: NATIONAL PERIOD I. (3)
153 LATIN AMERICA: NATIONAL PERIOD II. (3)
158 CITIES AND THE WESTERN WORLD II. (3) A continuation of Hs 157.
171 THE AMERICAN PEOPLE I. (3) (To the Civil War.)
172 THE AMERICAN PEOPLE II. (3) (Since the Civil War.)
185 TRADITIONAL CHINESE CIVILIZATION I. (3)
186 MODERN CHINESE CIVILIZATION II. (3)

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.

221 EUROPE, EIGHTEENTH CENTURY. (3)

\*222 REVOLUTIONARY EUROPE, 1783-1848. (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).


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).


237 SEMINAR: USSR-USA CONFRONTATION. (3) (Po 237).

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

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

\*241 ENGLAND, 1760-1867. (3)

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

\*243 MODERN IRELAND. (3)

\*244 OLIVER CROMWELL IS DEAD. (3) The background, the course of, and the aftermath of the English Civil War.

249 INTERNATIONAL ORGANIZATION. (3) (Po 249).


\*254 ARGENTINA, BRAZIL AND CHILE. (3)

\*263 HISTORY OF TERRORISM. (3) Historical overview and analysis of contemporary terrorism. (Po 263).

272 NATIONALISM AND COMMUNISM IN ASIA. (3)

\*275 SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Po 275).

\*279 INDIA SINCE 1857 AND PAKISTAN. (3) (Po 279).
History

284 JAPAN SINCE 1868. (3) (Po 284).

286 CHINA SINCE 1644. (3) (Po 286).


289 PEOPLE'S REPUBLIC OF CHINA: FOREIGN POLICY. (3) (Po 289).

290 EUROPEAN INTELLECTUAL HISTORY TO THE EIGHTEENTH CENTURY. (3) Ideas and their influence from antiquity to the Enlightenment.

291 EUROPEAN INTELLECTUAL HISTORY IN THE NINETEENTH AND TWENTIETH CENTURIES. (3) Ideas and their influence from the French Revolution to the present.


293 HISTORICAL CRITICISM. (3) Undergraduate study of the canons of historical literature as found in its more notable productions. The problem of evidence. Truth in history. Historical research and senior research paper.

298 ADVANCED READING. (3) Tutorial course under staff direction.

301 COLONIAL AMERICA, 1607-1763. (3) England and America on the eve of colonization, the founding and development of the American colonies. Differences in religion, culture and politics.


303 THE NEW NATION, 1785-1825. (3) The Constitution, origins of the two-party system. Federalists and Democratic Republicans. War of 1812, and ideas which conceived the new nation.

304 THE AGE OF JACKSON, 1825-1861. (3) Development of sectionalism and attempted solutions, slavery problems, secession, constitutional discussion, Northern industry, the West, and unity and disunity.


311 AGE OF BIG BUSINESS, 1885-1920. (3) Economic surge with its social and political sequel.

312 UNITED STATES IN THE TWENTIETH CENTURY. (3) The United States since 1919. Social and political tensions found in America during these years.

314 SOCIAL UNREST IN RECENT AMERICA. (3) Major causes and effect of social unrest in post-World War II America.


340 THE PRESIDENCY. (3) (Po 340).


343 AMERICAN THOUGHT AND CULTURE I. (3) Satisfies social science history requirement Level I.
HISTORY

344 AMERICAN THOUGHT AND CULTURE II. (3) Satisfies social science history requirement Level II.

348 CONSTITUTIONAL AMERICA TO 1865. (3) Elements active in colonial times. Making the Constitution. Amendments and interpretations. (Po 348).

349 CONSTITUTIONAL AMERICA SINCE 1865. (3) Amendments and interpretations. Changing attitudes, new conditions of life, fresh ideas. (Po 349).

350 INTELLECTUAL HISTORY OF THE UNITED STATES. (3) Puritanism, political Revolutionary thought. American Renaissance, Social Darwinism, and pragmatism in American history.


356 ETHNIC PATTERNS IN AMERICAN CITIES. (3) (Po 356, So 356).

358 URBAN AMERICA. (3) Emergence and importance of the city in socio-political America, particularly 1865-1915, but continuing to the 1960's. (Po 358).

359 DISCOVERY AND EXPLORATION. (3) The history of discovery and exploration from Marco Polo to Neil Armstrong.

360 AMERICAN POLITICAL PARTIES. (3) Role in government and society. Their contribution to the American system of government. Foreign party systems and American pressure groups. (Po 360).

361 HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) Colonial Congresses, the Articles of Confederation, the Constitutional Convention, and the legislative, executive, and judicial departments of the federal government. (Po 361).

363 UTOPIAN COMMUNITIES: MYTHS AND MODELS. (3) (Po 363).

364 AFRICAN BACKGROUND OF THE AMERICAN NEGRO. (3) The history and culture of the people of West Africa immediately preceding and at the time of the slave trade. (So 364).

365 THE NEGRO IN AMERICA. (3) African background, the slave trade, slavery, Civil War and Reconstruction, Jim Crowism, Harlem Renaissance, civil rights' revolution, and Black Power. (Po 365, So 365).

366 A HISTORY OF RACIAL AND ETHNIC MINORITIES IN AMERICA. (3) The major racial and ethnic groups in America. Interrelationships. Slavery, immigration, and the assimilation of these groups into the American character.

369 WOMEN IN AMERICAN HISTORY. (3)

371 INTER-AMERICAN RELATIONS. (3) United States interest in and association with the other American states. Interrelations. The concept of hemispheric unity.

374 UNITED STATES FOREIGN POLICY. (3) (Po 374).

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

376 INTERNATIONAL LAW. (3) (Po 376).

377 INTERNATIONAL RELATIONS. (3) (Po 377).

382 AMERICAN STUDIES TO 1877. (3) Puritan times through Reconstruction. The religious, political, and social influences forming the American character. Taken concurrently with En 382. History majors may take Hs 382 instead of Hs 341.

383 AMERICAN STUDIES FROM 1877. (3) Social Darwinism and Marxism in America. The effects of isolationism and internationalism on the American character. Taken concurrently with En 383. History majors may take Hs 383 instead of Hs 342.

386 CHURCH AND STATE IN AMERICA. (3) (Th 386).

388 OHIO HISTORY. (3)

395 SENIOR SEMINAR: UNITED STATES. (3)

397 INTERNSHIP: LOCAL. (3) (Po 397, So 397).

398 ADVANCED READING AND RESEARCH. (3)
## History

425  **CINCINNATI'S MOVERS AND SHAKERS.** (2) (Ed 425, Po 425, So 425).

429  **AMERICAN JOURNAL: 1980.** (2) (Ed 429).

### 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)

537  **SEMINAR: USSR-USA CONFRONTATION.** (3) (Po 537).

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

549  **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).

602  **SEMINAR: COLONIAL UNITED STATES.** (3)

603  **SEMINAR: EARLY NATIONAL PERIOD.** (3)

611  **SEMINAR: THE AGE OF BIG BUSINESS.** (3)

612  **SEMINAR: THE UNITED STATES IN THE TWENTIETH CENTURY.** (3)

614  **SEMINAR: SOCIAL UNREST IN RECENT AMERICA.** (3)

630  **SEMINAR: THE AMERICAN WEST.** (3)

631  **SEMINAR: THE WEST SINCE 1783.** (3)

648  **SEMINAR: CONSTITUTIONAL HISTORY OF THE UNITED STATES.** (3)

650  **SEMINAR: UNITED STATES INTELLECTUAL HISTORY.** (3)

658  **SEMINAR: URBAN AMERICA.** (3)

674  **SEMINAR: UNITED STATES FOREIGN RELATIONS.** (3) (Po 674).

676  **SEMINAR: INTERNATIONAL LAW.** (3) (Po 676).

677  **SEMINAR: INTERNATIONAL RELATIONS.** (3) (Po 677).

695  **SPECIAL STUDIES.** (3)

699  **MASTER'S THESIS.** (6)

156
Mathematics (Mt)

Staff: DR. COLLINS, chairman; MR. BRUGGEMAN, DR. DELANEY, DR. FLASPOHLER, DR. HANSEN, FR. ISENECKER, DR. LARKIN, FR. MODRYS, MR. PULSKAMP, DR. SANDERS, MR. TRUNNELL

Assisted by: MS. BROERING, MS. BRUGGEMAN, DR. BUTEN, MR. BUTZ, MR. CHARRIER, MR. DEVANNEY, DR. HERBOLD, MR. KLEINHAUS, MS. MEALY, MS. PEARCE, MR. ROESSNER

(*) 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.

Two courses of similar content cannot be elected to fulfill a requirement in mathematics.

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

105 FUNDAMENTALS OF MATHEMATICS. (3) Rational numbers, percents. Polynomials, rational expressions, integral and rational exponents. Linear equations in one and two variables, quadratic equations in one and two variables. Graphing.


124 "BASIC" PROGRAMMING. (1) (Replaces Mt/Cs 125.) Introduction to the Xavier timesharing system, elements of the "BASIC" language, programming elementary problems. Prerequisite: Proficiency in secondary mathematics (cf. page 35). (Not both Mt/Cs 124 and IS 100 may be taken for credit.) (CS124).

130 INTRODUCTION TO COMPUTING. (3) Cf. CS 126.


140 GENERAL MATHEMATICS. (3) Computation with numbers, systems of numeration, properties of addition, multiplication and inverses. Whole numbers and rational numbers, irrational numbers and approximation. Equations and inequalities. Elements of geometry in the plane and space, graphs of linear and non-linear relations. (For education majors only.)

143 MATHEMATICS OF FINANCE. (3) Simple and compound interest, discounting, annuities, amortization and sinking funds, stocks, bonds, insurance.

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


150 ELEMENTS OF CALCULUS I. (3) Limits, the derivative, differentiation techniques. Curve-sketching, max.-min. problems. Elementary integration. Exponential and logarithmic functions. Prerequisite: Mt 149 or equivalent.

151 ELEMENTS OF CALCULUS II. (3) Techniques of Integration. Planes and systems of linear equations, surfaces, functions of several variables, partial derivatives. Max.-min. problems. Lagrange's method, multiple integrals. Exponential growth and decay. Prerequisite: Mt 150 or equivalent.
Mathematics

156 GENERAL STATISTICS. (3) Descriptive statistics, basic probability distributions. Confidence intervals and hypothesis testing. Regression and correlation. Chi-square analysis, analysis of variance. Non-parametric methods. Prerequisite: Mt 150 or equivalent.


170 CALCULUS I. (3) Derivatives of elementary functions, curve-sketching, max.-min. problems. Introduction to integration. Prerequisite: Mt 149 or equivalent.

171 CALCULUS II. (3) Applications of integration, transcendental functions, methods of integration, Taylor's series. Prerequisite: Mt 170 or equivalent.

197 TUTORIAL STUDY. Credit by arrangement.

Upper Division Courses

202 INFORMAL GEOMETRY FOR ELEMENTARY TEACHERS. (3) Intuitive properties of triangles, rectangles, circles and other figures in the plane. Properties of familiar solids, concepts of deduction, measurement and coordinate geometry. Introduction to the use of geoboards, physical models and other teaching devices. (For education majors only.)

205 TOPICS IN APPLICATIONS OF THE CALCULUS. (3) Selected applications of the calculus based on prepared modules. Prerequisite: Mt 150 or equivalent.

206 ELEMENTARY CALCULUS FROM AN ADVANCED VIEWPOINT. (3) Topics from calculus of one variable. Primarily intended for teachers of high school calculus. Prerequisite: Mt 170 or permission of instructor.

210 INTRODUCTION TO INFINITE SERIES. (2-3) Limits of sequences and of series of real numbers. Comparison, ratio and root tests. Sequences and series of functions. L'Hospital's Rule. Power series. Prerequisite: Mt 171.

215 DIFFERENTIAL EQUATIONS. (2-3) Ordinary differential equations. Linear and non-linear first order equations, higher order linear equations with constant and non-constant coefficients. Linear systems with constant coefficients. Series solutions and applications. Prerequisites: Mt 171, 160.

220 ADVANCED CALCULUS I. (3) Functions of several variables, limits and continuity, partial derivatives, differentiability, exact differentials. Composite functions and the chain rule, implicit functions, Jacobians, gradient, mean value theorem. Prerequisites: Mt 171, 160.

230 ADVANCED CALCULUS II. (2-3) Multiple integrals, change of variables, line and surface integrals, Green’s theorem, Stoke’s theorem, divergence theorem. Prerequisite: Mt 220 or equivalent.

235 TOPICS IN COMPUTERS AND LANGUAGES. (3) Designed primarily for high school teachers. Survey of computer organization, characteristics of high level languages, and basic elements of systems programming. Prerequisite: Calculus. (CS 235).

237 TOPICS IN LOGIC. (3) The propositional calculus and the predicate calculus of one variable investigated as a mathematical system.

238 TOPICS IN STATISTICS. (3) Elementary probability, descriptive statistics, estimation and inference, correlation and regression.

239 TOPICS IN MODERN ALGEBRA. (3) Introduction to the study of groups, rings, and fields.

240 LINEAR ALGEBRA. (3) Vector spaces, bases, linear transformations, matrices and inverses, change of bases. Systems of linear equations, determinants, eigenvalues and eigenvectors, diagonalization. Prerequisite: Mt 160.

241 LINEAR ALGEBRA WITH APPLICATIONS. (3)

255 ASSEMBLER LANGUAGE. (3) Cf. CS 255.

256 ASSEMBLER PROJECT. (1-2) Cf. CS 256.
260 ELEMENTARY TOPOLOGY. (3) Topology of metric spaces, limits, continuity, compactness, and connectedness. Prerequisite: Mt 220.

265 DISCRETE STRUCTURES. (3) Cf. CS 265.

270 THE ELEMENTS OF REAL ANALYSIS. (3) The real number system, numerical sequences and series. Elementary topology of metric spaces, continuity, connectedness, completeness, compactness. Sequences and series of functions, pointwise and uniform convergence. Prerequisite: Mt 230 or equivalent.

280 COMPLEX VARIABLES. (3) Complex numbers, analytic functions, complex integration, series representation of analytic functions, the calculus of residues. Prerequisite: Mt 230 or equivalent.

301 PROBABILITY. (3) Definition of probability, random variables, density and distribution functions. Applied probability models, independence, conditional probability, laws of large numbers, normal approximation, Markov chains. Prerequisite: Mt 230.

302 INTRODUCTION TO OPERATIONS RESEARCH. (3) Deterministic and stochastic models, network analysis. Linear, non-linear and integer programming. Classical optimization, inventory theory, queueing, Markov analysis. Prerequisites: Mt 230, 301 or permission of instructor.

303 NUMERICAL ANALYSIS. (3) Selected topics. Prerequisites: Mt 220 and programming.

311 STATISTICS. (3) Estimation, confidence intervals, hypothesis testing, regression and correlation analysis, analysis of variance, experimental design, non-parametric methods. Prerequisite: Calculus.

315 SURVEY OF GEOMETRIES. (3) Axiom systems, models and finite geometries, convexity, transformations, Euclidean constructions and the geometry of triangles and circles. Introduction to projective and non-Euclidean geometries.

320 MATHEMATICAL LOGIC. (3) Axiomatic development of propositional calculus, functionally complete sets of operators, axiomatic development of the first order function calculus, the existential operator, the algebra of logic.

325 DATA STRUCTURES. (3) Cf. CS 325.

330 THEORY OF NUMBERS. (3) Divisibility and primes, linear congruences, quadratic residues and reciprocity. Diophantine equations, multiplicative functions, distribution of primes.

335 OPERATING SYSTEMS. (3) Cf. CS 335.

340 APPLIED LINEAR ALGEBRA. (3) Applications of matrix arithmetic and matrix algebra to the mathematical, physical and social sciences. May be offered on an individual basis. Prerequisite: Mt 240.

342 LINEAR PROGRAMMING. (3) Derivation of simplex algorithm, dual and revised simplex, duality, sensitivity analysis, decomposition, integer programming, transportation and assignment problems, game theory. Prerequisite: Mt 240.

343 LINEAR ANALYSIS. (3) Normed linear space, inner product space, function spaces, Banach and Hilbert spaces, orthonormal sets and bases. Fourier expansions, linear operators and functionals, normal, unitary and Hermitian operators. Projections, spectral theory. Prerequisite: Mt 230 or equivalent.

355 PROGRAMMING LANGUAGES. (3) Cf. CS 355.


375 SIMULATION. (3) Cf. CS 375.

397 SPECIAL READING AND STUDY FOR ADVANCED STUDENTS. Credit by arrangement.
Military Science (MS)
The Reserve Officers' Training Corps

Staff: COL. RESLEY, chairman; LT. COL. BAIRD, CPT. KASTER, CPT. McDOWELL

Assisted by: SGM. STEWART, MSG. MEADOR, SFC. COTTRELL, MS. DAVIS, MR. JORDAN

The Department of Military Science provides an opportunity for the study of subjects of recognized military and educational value to assist the student in gaining the foundations of intelligent citizenship. The primary purpose of this four-year program is to produce leaders who have the qualities and attributes essential to service as commissioned officers in the United States Army. The course of instruction is open to enrollment for both male and female students.

The complete program of instruction comprises four semesters of lower division (basic) courses and four semesters of upper division (advanced) courses.

The lower division (basic) courses are taken on a voluntary basis. THERE IS NO MILITARY OBLIGATION INCURRED BY ENROLLMENT IN LOWER DIVISION COURSES (freshman and sophomore year). A military obligation is incurred by enrollment and completion of the upper division (advanced) courses.

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 Advanced Course Student Contract which entitles the student to receive a $100 per month subsistence allowance during the school year, not to exceed 20 months for 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 3 1/2 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.


105 ROTC LEADERSHIP CAMP. (1-4) Six weeks of Army ROTC training at Fort Knox, Kentucky during the summer. Especially designed as a substitute for the other lower division courses. Camp graduates are eligible to enter the Army ROTC advanced course. Travel pay and salary provided through the Military Science Department.
Modern Languages

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. CHAVES, MR. FIGURE, DR. MIYAR, DR. SCHURR

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 humanities, subject to limitations as indicated.

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 121. 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.
Modern Languages

*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.

*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) Credit by arrangement.

French (Fr)

For students majoring in French, Fr 200, 234 or 235, 240, and 241 are required as an introduction to all French upper division courses beginning at the 252-level. For non-majors, the same sequence is strongly recommended.

Lower Division Courses

100 A WALKING TOUR OF PARIS. (3) Combines lectures on the Xavier campus with a two-week study trip to Paris. Introduces students to French life and society, permits them to live among the people, and exposes them to cultural, intellectual, and culinary aspects of Paris. Conducted in English.

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)

230 FRANCE: LIFE/STYLES. (3) (In English.)

*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)

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

*253 SEVENTEENTH-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)

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

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 122 or the equivalent. Students should take one or 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 Lazarillo de Tormes, Don Quixote and other novels of the period.

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

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 Quiintero 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. Alegría, Gutiérredez and other important writers.

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

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

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

Staff: DR. GENDREAU, chairman; MRS. BLAIR, DR. BONVILLAIN, MR. COLELLA, 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 (page 35).

Lower Division Courses

AREA I: PHILOSOPHY OF THE HUMAN BEING: 100-199. The human being's distinctive operations, powers, freedom, spirituality and immortality; human being as a person and as social.

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

'100 PHILOSOPHICAL PSYCHOLOGY. (3) The nature and unity of the human being, distinctive powers and operations, person, freedom, spirituality, Immortality. Analysis of texts.

'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. A new synthesis out of triadic opportunity.

'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.

'139 BECOMING A HUMAN BEING. (3) What potentialities define the human being? What activities explicate his being human? Evaluation of contemporary ways of becoming a human person.

'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. Analysis of being, knowledge and God.

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. Analysis of texts.

* 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. New synthesis out of triadic opportunity.

* 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 noncategorical conceptualization.

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

* 213 SPIRIT IN THE WORLD. (3) The meaning of reality, the possibility of history and the openness to the Absolute Being in Karl Rahner's perspective.

* 215 SEARCH FOR TRANSCENDENCE. (3) Person's opportunities for self-appropriation in pluralism in ways of achieving transcendence in being to be real as whole person in tune with triadic opportunity.

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

* 233 METAPHYSICS, CLASSICAL AND CONTEMPORARY. (3) Study of being, goodness, truth, unity, causes: Plato, Aristotle, Heidegger.

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

* 244 CONTEMPORARY METAPHYSICS. (3) Ontological issues and concepts in contemporary analytic philosophy and the relation of these to traditional metaphysics.


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, law, responsibility and authenticity. Analysis of texts.

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

PERSONALIST ETHICS. (3) Philosophizing in history about person to develop an integral personalist ethics for self-appropriation through human actions for good of whole person within triadic opportunity.

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

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

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


ETHICS AND SOCIAL JUSTICE. (3) Study of the foundations of ethics and social order, especially economic justice. Texts: Plato's Republic, Aquinas' On Law, readings of contemporary thinkers (Rawls, Nozick, Smart).

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

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" 330-349; Special areas 350-379; Authors 380-394; Special study 395; Library Research Seminar 396; Senior Comprehensive Review 398-399.

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

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

HISTORY OF MEDIEVAL PHILOSOPHY. (3) Christian, Islamic and Jewish developments of Greek philosophy showing medieval pluralism in world view offering unique methodological opportunity for philosophizing.

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

HISTORY OF CONTEMPORARY PHILOSOPHY. (3) Structuralist basis for diversity of twentieth-century philosophy.

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

CONTEMPORARY BRITISH AND AMERICAN PHILOSOPHY. (3) One or more of linguistic analysis, naturalism, pragmatism and their methods.

ORIENTAL PHILOSOPHY. (3) Hindulism, Buddhism, the Tao, Confucius, Zen.

LOGIC. (3) Language, the formal aspects of reasoning, and the forms of argument in traditional syllogistic and modern symbolic logic.

THEORY OF KNOWLEDGE. (3) Human knowledge as regards its truth and certitude; the evidence grounding diverse judgments; main divergent theories.

PHILOSOPHY OF NATURE. (3) Philosophical questions about nature, matter, motion, space, time, causality and necessity.

PHILOSOPHY OF GOD. (3) Study by natural reason of the source of finite beings; God's existence, knowability, nature, attributes and operations.
Philosophy

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.

322  **BUSINESS ETHICS.** (3) A study of the context and ethical principles of contemporary business with case studies of critical issues in business.

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. Textual analysis showing pluralism of options.

325  **ETHICS IN DEWEY, JAMES, AND ROYCE.** (3) A study and critique of the methods and insights of three classical American moral philosophers.

326  **ETHICS AND MORAL DEVELOPMENT.** (3) Research course on theories of moral development in light of moral principles involved with practical application in family, church, and school context.

328  **AXIOLOGIE MORALE EN FRANCE CONTEMPORAINE.** (3) Present-day contributions in France to theory of value in ethics. All course activities in French. Written textual analysis and oral seminar discussion.


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.

335  **PHILOSOPHY OF REVOLUTION.** (3) Seminar and research study of the philosophical and social theory of revolution from Aristotle to Marcuse. Text analysis.

338  **PHILOSOPHY OF LANGUAGE.** (3) Representative thinkers from at least three schools of thought: realism, instrumentalism, structuralism.

339  **PHILOSOPHY OF THE FUTURE.** (3) Future as a category of consciousness: millenarism, Marxism, technology, liberation movements.

341  **DIMENSIONS OF LOVE.** (3) Love in literature. Philosophical approach of Plato, Freud and Fromm; transcendental analysis of experience.

343  **PHILOSOPHY OF HISTORY.** (3) The main views of the being of man in time and history. Epistemology of history.

352  **PERSONALISM.** (3) European existentialist and American idealistic personalism; liberation, conscientization, self-appropriation, personal and communal being. Integral Personalism as new synthesis.

355  **PRINCIPLES OF POLITICAL PHILOSOPHY.** (3) The nature of justice and law; the religious and philosophical legitimation of political institutions.

358  **APPALACHIA: SOCIAL JUSTICE.** (3) A study of social justice principles as applied to rural and urban Appalachia in American economy.

356  **DIALECTICAL PHILOSOPHY.** (3) Dialectic from Plato to Hegel and Marx.

360  **CONTEMPORARY ATHEISM.** (3) The problem of the existence of God as posed in modern and contemporary culture. Agnosticism and avowed atheism in contemporary progressive humanism.

370  **SPANISH PHILOSOPHY.** (3) Spanish philosophy from the Hispano-Arabs and Jews to the present. Study of a major author.

380  **READINGS IN AQUINAS.** (3) Selected texts. Study of the methodology, basic issues of the period; relevance to modern problems.
Philosophy

*382 AQUINAS AND BONAVENTURE. (3) Intellectual crisis of 1250-1275. Readings in primary and secondary sources. Stress on historical roots and context.

*384 THE PHILOSOPHY OF JOHN DUNS SCOTUS. (3) Study in primary and secondary sources of an eminent medieval Franciscan philosopher-theologian.

*385 PLATO AND KANT. (3) From objective to subjective idealism: A Priori in Plato and Kant.

*386 EDMUND HUSSERL. (3) Study of Husserl's Ideas, a key source of the contemporary phenomenological movement.

*387 HEIDEGGER'S KANT—INTERPRETATION. (3) Analysis of Heidegger's Kant and the Problem of Metaphysics.

*389 TEILHARD DE CHARDIN. (3) A study of Teilhard's Phenomenon of Man and Future of Man with critical evaluation of his vision.

*391 MAURICE BLONDEL. (3) Blondel's L'Action: its sources and influence.

*392 INSIGHT: A LONERGAN STUDY. (3) The methodology developed by Lonergan and its application to philosophy, scientific research, history and revelation.

*393 JOSIAH ROYCE. (3) A study and critique of The Problem of Christianity by this prophet of secular Christianity.

*394 GERMAN IDEALIST PHILOSOPHY. (3) Study of idealist perspective of Kant, Fichte, Schelling and Hegel and of the impact of their approach on contemporary philosophical ways of thinking.

*395 SPECIAL STUDY. Credit to be arranged.

*396 LIBRARY RESEARCH SEMINAR.

398 SENIOR COMPREHENSIVE REVIEW I. (1) For majors. Review of main conclusions of required systematic courses (except logic) up to ethics.

399 SENIOR COMPREHENSIVE REVIEW II. (1) For majors. Review of main conclusions in moral problems and of history of philosophy.

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)

562 PLATO: MAJOR DIALOGUES. (3)

572 THE RATIONALISTS. (3)

575 THE BRITISH EMPIRICISTS. (3)

583 EXISTENTIALISM AND PHENOMENOLOGY. (3)

596 LINGUISTIC ANALYSIS. (3)

592 AMERICAN PRAGMATISTS. (3)

655 ARISTOTLE. (3)

661 PHILOSOPHY OF ST. AUGUSTINE. (3)

663 PHILOSOPHY OF ST. BONAVENTURE. (3)
Physics

- **PHILOSOPHY OF ST. THOMAS AQUINAS.** (3)
- **WORKS OF ST. THOMAS AQUINAS.** (3)
- **DESCARTES.** (3)
- **HUME.** (3)
- **KANT.** (3)
- **HEGEL.** (3)
- **SPECIAL STUDY.** Credit to be arranged.
- **MASTER'S THESIS.** (6)

**Physics (Ph)**

*Staff:* DR. TOEPKER, chairman; MR. HART, DR. MILLER, FR. O'BRIEN, DR. YERIAN
*Research Professor:* DR. WERNER
*Director of Seismology Observatory:* FR. BRADLEY

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

### Lower Division Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>104</td>
<td>COLLEGE PHYSICS I, II. (3) Each semester. For pre-med, pre-dent, and others.</td>
</tr>
<tr>
<td>106</td>
<td>Mechanics, heat, sound, electromagnetism, optics, and modern physics. Corequisite: Ph 105 and 107 laboratory. Prerequisite: Algebra.</td>
</tr>
<tr>
<td>105</td>
<td>INTRODUCTORY PHYSICS LABORATORY I, II. (1) Each semester. These laboratories accompany Ph 104 or 108 and Ph 106 or 110 lectures respectively.</td>
</tr>
<tr>
<td>114</td>
<td>INTRODUCTION TO PHYSICAL SCIENCES. (3) For elementary education majors only.</td>
</tr>
<tr>
<td>115</td>
<td>INTRODUCTION TO PHYSICAL SCIENCES LABORATORY. (1)</td>
</tr>
<tr>
<td>117</td>
<td>OUR UNIVERSE—THE EARTH LABORATORY. (1) Laboratory to accompany Ph 116.</td>
</tr>
<tr>
<td>119</td>
<td>OUR UNIVERSE—THE SKY LABORATORY. (1) Laboratory to accompany Ph 118.</td>
</tr>
<tr>
<td>120</td>
<td>RADIOLOGIC PHYSICS I. (2) Energy, the structure of matter, electricity, magnetism, radioactivity, and the nature and production of X-rays. Calculations in radiology. For radiologic technology students.</td>
</tr>
<tr>
<td>121</td>
<td>RADIOLOGIC PHYSICS II. (2) A continuation of Ph 120.</td>
</tr>
<tr>
<td>137</td>
<td>HOLOGRAPHY—LASER PHOTOGRAPHY. (3)</td>
</tr>
<tr>
<td>160</td>
<td>TIME-SHARING COMPUTERS IN PHYSICS. (1) The use of time-sharing computers and the &quot;BASIC&quot; computer language in solving physics problems.</td>
</tr>
<tr>
<td>161</td>
<td>DIGITAL COMPUTERS IN PHYSICS. (1) The use of the FORTRAN computer language and the digital IBM 360 computer.</td>
</tr>
<tr>
<td>162</td>
<td>ANALOG COMPUTERS IN PHYSICS I, II. (1) Each semester. The use of the analog computer in simulation of problems involving mechanical and electrical vibrations, probability, and biorhythms.</td>
</tr>
</tbody>
</table>
Upper Division Courses

204 ANALOG COMPUTER WORKSHOP. (3)

205 TIME-SHARING COMPUTER WORKSHOP. (3)

206, 207 ADVANCED STUDY OF BASIC PHYSICS I, II. (3) Each semester. The broad implications of the fundamental principles of general physics. Prerequisite: General Physics or the equivalent.


243, 244 ELECTRONICS LABORATORY I, II. (1) Each semester. Laboratory to accompany Ph 242, 244 respectively.

245 THEORETICAL MECHANICS I. (3) Statics, equilibrium of rigid bodies, analysis of structure, friction, machines.

246 THEORETICAL MECHANICS II. (3) Dynamics, Kinematics of particles and rigid bodies, conservation of energy and momentum, Inertial matrices.

247 ELECTROMAGNETISM I. (3) Coulomb’s law, Ampere’s law, Faraday’s law, Maxwell’s electromagnetic equations in free space and material media. Course is given in vector notation.

250 METHODS OF MATHEMATICAL PHYSICS. (3) Matrix and vector algebra, complex variables, integral transforms, and linear partial differential equations.

254 PHYSICAL OPTICS. (3) Electromagnetic wave theory is used to derive the laws of optics; reflection, refraction, diffraction, Fresnel integrals, and theory of dispersion.

255 OPTICS LABORATORY. (1) Experiments in Physical Optics, including diffraction, Michelson’s interferometer, multiple beam interference, polarization, and various experiments on the prism spectograph.

256 ATOMIC PHYSICS. (3) The atomic view of matter, electricity, and radiation; the atomic models of Rutherford and Bohr, relativity, X-rays, and introduction to quantum mechanics.

257 ELECTROMAGNETIC THEORY. (3) Lasers, holography, spatial filtering, and coherence of electromagnetic radiation.

258 NUCLEAR PHYSICS. (3) Natural and artificial radioactivity, nuclear reactions, high-energy physics, and fundamental particles. Prerequisite: Ph 366.

259 ATOMIC PHYSICS LABORATORY. (2) Photoelectric effect, e/m for electrons, black body radiation, vacuum and glass work techniques, ionization potentials, Bragg diffraction, atomic spectra.

260 INTRODUCTION TO QUANTUM MECHANICS. (3) The mathematical formalism of quantum mechanics and its physical interpretation. Prerequisite: Ph 366.

261 NUCLEAR PHYSICS LABORATORY. (1) Experiments in radioisotope techniques, nuclear particle counting, and instrumentation.

262 THERMODYNAMICS. (3) Thermodynamic variables and processes, internal energy of a system, first and second laws of thermodynamics. Carnot cycle, entropy and irreversibility.

263 (GEOPHYSICS.) ELEMENTARY SEISMOLOGY. (3) The nature of earthquakes, fundamental seismograph theory, and the location of earthquakes.

264 GEO-ASTROPHYSICS. (3) The applied fields of geophysics, atmospheric physics, astronomy, and astrophysics.

265 SPECIAL STUDIES. (3) Area to be specified.

266 SENIOR REVIEW. (2)

267 SPECIAL READINGS. (1-3) Area to be specified.

268 SENIOR RESEARCH. (1-3)

410 HANDS-ON DEVELOPMENTAL SCIENCE. (2) (Ed 410).

411 WORKSHOP: BASIC ELECTRONICS FOR TEACHERS. (2) (Ed 411).
Political Science (Po) and Sociology (So)

Staff: DR. HEIGHBERGER, chairman; FR. JOHNSON, DR. MOULTON, MR. WEIR, DR. WEISSBUCH
Assisted by: MS. DWYER, DR. GOODMAN, DR. GRUBER, MR. MALONEY, MR. McVAY, DR. SIMON

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

Political Science (Po)

Lower Division Courses


*110 AMERICAN GOVERNMENT. (3) Legal, behavioral, historic, and contemporary aspects of the American Political System.

*140 INTRODUCTION TO PUBLIC POLICY. (3) Governments, institutions and processes will be examined within the context of various problems. Consequences of governmental action.

Upper Division Courses

200 THE SOCIOLOGY OF MAX WEBER. (3) (So 200).

221 COMPARATIVE GOVERNMENT—EUROPE. (3) The politics of Great Britain and France. Political developments, governmental institutions, parties, pressure groups, electoral systems and the structure of society.

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


230 MODERN GERMANY. (3) German politics from Bismarck to the present. The Weimar Republic. The Nazi period. The contemporary division of Germany. (Hs 230).


233 HISTORY OF POLITICAL THEORY. (3) Men and ideas. The major thinkers in history are studied for their effects on political problems today.

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. (Hs 235).


237 SEMINAR: USSR-USA CONFRONTATION. (3) (Hs 237).

238 TWENTIETH-CENTURY EASTERN EUROPE. (3) (Hs 238).

*242 ENGLAND SINCE 1857. (3) (Hs 242).


245 THE ATLANTIC COMMUNITY. (3) (Hs 245, Ec 245).

246 CINCINNATI GOVERNMENT AND POLITICS. (1)

260 POLITICAL SOCIOLOGY. (3) (So 260).

263 HISTORY OF TERRORISM. (3) (Hs 263).

272 NATIONALISM AND COMMUNISM IN ASIA. (3)

275 SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Hs 275).

279 INDIA SINCE 1857 AND PAKISTAN. (3) (Hs 279).

284 JAPAN SINCE 1868. (3) (Hs 284).

286 CHINA SINCE 1644. (3) (Hs 286).

287 CHINA: INTELLECTUAL HISTORY. (3) (Hs 287).

288 JAPAN: INTELLECTUAL HISTORY. (3) (Hs 288).

289 PEOPLE'S REPUBLIC OF CHINA: FOREIGN POLICY. (3) (Hs 289).

292 NATIONALISM IN MODERN TIMES. (3)

298 ADVANCED READING AND RESEARCH. Credit to be arranged.

330 GOVERNMENT AND BUSINESS I. (3) (Ec 330).

332 INTRODUCTION TO PUBLIC ADMINISTRATION. (3) Local and state. Primary emphasis is on national problems and the federal civil service.

335 PUBLIC FINANCE AND TAXATION. (3) (Fi 335, Ec 335).

340 THE PRESIDENCY. (3) Federal-State relationships. The constitutional concept of the office. The President as administrator, as commander-in-chief in wartime, as organ of foreign relations, and as political leader.

345 PRESSURE GROUPS AND CONGRESS. (3) A study of pressure groups and group theory as it applies to the United States. Special emphasis on the structure and operation of Congress.


348 CONSTITUTIONAL HISTORY OF U.S. TO 1865. (3) (Hs 348).

349 CONSTITUTIONAL HISTORY OF U.S. SINCE 1865. (3) (Hs 349).

351 AMERICAN REVOLUTION: CONFLICT AND CONSENSUS. (3) (Hs 351).

352 PRINCIPLES OF RESEARCH. (3) (So 352).

353 INTERMEDIATE SOCIAL RESEARCH. (3) (So 353).

358 URBAN AMERICA. (3) (Hs 358).

359 STATE AND LOCAL GOVERNMENT. (3)

360 AMERICAN POLITICAL PARTIES. (3) (Hs 360).

361 HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) (Hs 361).


365 THE NEGRO IN AMERICA. (3) (Hs 365).

370 FOREIGN AFFAIRS IN THE UNITED STATES. (3) Current policies and operations. State Department organization. The Career Foreign Service and related agencies.

371 INTER-AMERICAN RELATIONS. (3) (Hs 371).

374 UNITED STATES FOREIGN POLICY. (3) The emerging policies of the United States of America from the period of its revolutionary origin through the crises of the present time. (Hs 374).

375 PROBLEMS IN POLITICAL GEOGRAPHY. (3) Contemporary foreign policy in its many geographical and environmental relationships. Population, raw materials, and the history of geopolitical theories. (Hs 375).
Political Science


390 SEMINAR IN INTERNATIONAL RELATIONS. (3) Senior comprehensive paper. Research methods.

391 PROBLEMS IN AMERICAN GOVERNMENT. (3) Selected problems. The processes of American government in dealing with problems. Taken in senior year.

395 DIRECTED STUDY. Credit to be arranged.

396 INTERNATIONAL AFFAIRS INTERNSHIP. (3) (IA 396).

397 INTERNSHIP: LOCAL. (3) (Hs 397, So 397).

425 CINCINNATI'S MOVERS AND SHAKERS. (2) (Ed 425, Hs 425, So 425).

Graduate Courses

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

537 SEMINAR: USSR-USA CONFRONTATION. (3) (Hs 537).

546 SEMINAR: AMERICAN GOVERNMENT. (3) The national political system. Designed to meet the needs of teachers in service as well as students doing advanced work in history and political science. (Hs 546).

549 SEMINAR: INTERNATIONAL ORGANIZATION. (3).

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

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

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

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

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

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

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

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

674 SEMINAR: UNITED STATES FOREIGN RELATIONS. (3) (Hs 674).

676 SEMINAR: INTERNATIONAL LAW. (3) (Hs 676).

677 SEMINAR: INTERNATIONAL RELATIONS. (3) (Hs 677).

699 MASTER'S THESIS. (6)
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.

180 CULTURAL ANTHROPOLOGY. (3) Concepts and materials of culture from the field of ethnography, ethnology and archaeology. Origin, development, universals and variations of culture through cross-cultural analysis.

Upper Division Courses


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.

265 SOCIAL STRATIFICATION. (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.

266 UTOPIAN COMMUNITIES. (3) Course examines, in historical and contemporary settings, Utopian writings and actual attempts at establishing Utopian situations.

270 INDUSTRIAL SOCIOLOGY. (3) Industry as a social system and its relationship to the community. Structure, function, and strain of industrial roles.

282 ANTHROPOLOGY OF THE AMERICAN INDIAN. (3) Prehistory and development of Indian culture in North America. Similarities and differences by cultural area.

285 MAGIC AND WITCHCRAFT. (3) Mysticism and the supernatural in social context. Discovering the meanings and functions of magic and witchcraft within various cultural contexts.


300 SOCIOLOGICAL THEORIES. (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.
Psychology

310 MARRIAGE AND THE FAMILY. (3) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting. (Th 310).

316 COMPLEX ORGANIZATIONS. (3) A critical survey of formal organizations and the social processes and behaviors associated with them. Authority, control, motivation, socialization and alienation are among the areas to be discussed. (Mg 316).

350 SEMINAR IN SOCIOLOGY. (3) Selected topics and readings for senior sociology majors. (Others with permission of instructor.)

352 PRINCIPLES OF RESEARCH. (3) (Po 352).

353 INTERMEDIATE SOCIAL RESEARCH. (3) (Po 353).

395 DIRECTED STUDY. Credit to be arranged.

397 INTERNSHIP: LOCAL. (3) (Hs 397, Po 397).

425 CINCINNATI’S MOVERS AND SHAKERS. (2) (Ed 425, Hs 425, Po 425).

426 THE AMERICAN FAMILY: WILL IT SURVIVE? (2) (Ed 426).

488 HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (Cr 488, Ed 488, Ps 488).

Psychology (Ps)

Staff: DR. BARRY, chairman; DR. QUATMAN, assistant chairman; DR. BIELIAUSKAS, Riley Professor, DR. BERG, DR. CERBUS, DR. CLARKE, DR. COSGROVE, DR. DEARDORFF, DR. FEUSS, FR. FOLEY, DR. HELLKAMP, DR. KRONENBERGER, MR. LaGRANGE, DR. MEZINSKIS, DR. NELSON, DR. SCHMIDT

Assisted by: DR. CHIAPPONE, DR. COLLIGAN, MR. DINERMAN, MRS. GLUECK, DR. LIPPERT, DR. MONNING, DR. PAPANICOLAOU, DR. SCHMIDTGOESSLING, DR. SEIDNER, DR. SMITH

(*) 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. (1) 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).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Requirements</th>
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</thead>
<tbody>
<tr>
<td>201</td>
<td>HISTORY AND SYSTEMS OF PSYCHOLOGY</td>
<td>(2-3) Modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required.</td>
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<tr>
<td>210</td>
<td>STATISTICAL TECHNIQUES.</td>
<td>(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).</td>
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<tr>
<td>221</td>
<td>EXPERIMENTAL PSYCHOLOGY I.</td>
<td>(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.</td>
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<tr>
<td>222</td>
<td>EXPERIMENTAL PSYCHOLOGY II.</td>
<td>(3) Learning, emotion, motivation, social behavior. Animal and human subjects. Planning, instrumentation. Controls. One lecture, four hours lab per week. Prerequisite: Ps 221.</td>
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<tr>
<td>227</td>
<td>THE BIOLOGICAL BASIS OF ANIMAL BEHAVIOR.</td>
<td>(4) (Bl 340, 341).</td>
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<tr>
<td>231</td>
<td>DEVELOPMENTAL PSYCHOLOGY.</td>
<td>(3) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration. (Ed 231).</td>
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<td>232</td>
<td>CHILD PSYCHOLOGY.</td>
<td>(2-3) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (Ed 232).</td>
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<td>233</td>
<td>ADOLESCENT PSYCHOLOGY.</td>
<td>(2-3) Interrelated physical, social, and moral development associated with youth and adolescence. (Ed 233).</td>
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<tr>
<td>251</td>
<td>INDUSTRIAL PSYCHOLOGY.</td>
<td>(2-3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American industry. (IR 330).</td>
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<tr>
<td>261</td>
<td>SOCIAL PSYCHOLOGY.</td>
<td>(2) The individual's personality, attitudes, and behavior in multi-individual situations. (Ed 261).</td>
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<tr>
<td>266</td>
<td>CRIME AND PERSONALITY.</td>
<td>(3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (Cr 566, Ed 266).</td>
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<tr>
<td>271</td>
<td>INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD.</td>
<td>(2) (Ed 271).</td>
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<td>274</td>
<td>MENTAL HYGIENE.</td>
<td>(2) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ed 274).</td>
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<tr>
<td>276</td>
<td>PSYCHOLOGY OF DELINQUENCY.</td>
<td>(2) Types and causes of juvenile delinquency together with brief case histories. (Cr 576, Ed 276).</td>
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<td>277</td>
<td>ABNORMAL PSYCHOLOGY.</td>
<td>(2-3) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. (Ed 277).</td>
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<tr>
<td>279</td>
<td>PSYCHOLOGICAL AND ACHIEVEMENT TESTS.</td>
<td>(2-3) (Ed 579).</td>
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<td>281</td>
<td>READINGS IN PSYCHOLOGY.</td>
<td>(1-3) Library research project assisted and supervised by staff member. Final oral exam. Seniors, graduate students only. Required research paper.</td>
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<td>285</td>
<td>THE PSYCHOLOGY OF RELIGION.</td>
<td>(3) (Th 285).</td>
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<td>287</td>
<td>HUMANISTIC PSYCHOLOGY.</td>
<td>(3) (Ed 587).</td>
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<tr>
<td>290</td>
<td>UNDERGRADUATE PRACTICUM IN PSYCHOLOGY.</td>
<td>(3) Interviewing, behavior observation, test administration, report writing, and group dynamics through on-the-job training. Open to seniors only, upon approval of the Departmental Chairman.</td>
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<tr>
<td>299</td>
<td>SENIOR COMPREHENSIVE REVIEW.</td>
<td>(2) Required of all majors. May substitute original research project upon approval of Departmental Chairman. Prerequisite: senior standing and instructor's approval.</td>
</tr>
</tbody>
</table>

177
Psychology

310 MARRIAGE AND THE FAMILY. (3) (So 310).
365 PSYCHOLOGY OF WOMEN. (2-3) (Ed 365).
367 PSYCHOLOGY OF AGING. (3) The interrelationship between biological-cognitive personality and social changes associated with aging.
395 DIRECTED STUDY. Credit to be arranged.
434 THEORIES OF PERSONALITY II. (2-3) Description and evaluation of current personality theories. Continuation of Ps 433. (Ed 434).
468 HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (Cr 468, Ed 468, So 468).

Graduate Courses

The following courses are required of all graduate students: 433, 434, 501, 502, 505, 511, and 521.

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, art, philosophy, and theology in understanding human nature.

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.


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).

553 MARKETING RESEARCH. (3) (BA 562).

580 PSYCHOPATHOLOGY. (2) (Ed 580).

582 INDIVIDUAL TESTS OF INTELLIGENCE. (2-4) (Ed 582).

584 PERSONALITY ASSESSMENT TECHNIQUES I. (3)

585 PERSONALITY ASSESSMENT TECHNIQUES II. (3) Prerequisite: Ps 584.

589 COUNSELING AND PSYCHOTHERAPY. (3)

590 PRACTICUM: EXPERIMENTAL PSYCHOLOGY. (3)

591 PRACTICUM: CLINICAL PSYCHOLOGY. (3)
Theology

592 PRACTICUM: COUNSELING PSYCHOLOGY. (3)
593 PRACTICUM: INDUSTRIAL PSYCHOLOGY. (3)
598 INTRODUCTION TO PSYCHIATRIC TREATMENT METHODS. (3)
600 WORKSHOPS AND INSTITUTES. Titles and credit hours will be announced in each individual case.
643 SEMINAR: INDUSTRIAL PSYCHOLOGY. (3) (Ed 643).
644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS. (3) (Ed 644, BA 644).
646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD. (3) (Ed 646).
647 CLINICAL STUDIES: TEACHING THE EMOTIONALLY DISTURBED CHILD. (2) (Ed 647).
649 TEACHING INTERNSHIP: LEARNING AND BEHAVIOR DISORDERS. (4-6) (Ed 649).
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).
689 RESEARCH IN PSYCHOLOGY. (3) Titles to be specified.
699 MASTER'S THESIS. (6)
717 COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS. (1) (Ed 717).

Theology (Th)

Staff: FR. MOELL, chairman; DR. BIGANE, FR. BRUEGGEMAN, DR. CALLAN, FR. CARTER, SR. GRAF, DR. GUDORF, FR. KING, FR. KLEIN (academic leave), DR. KNITTER, FR. KROEGER, FR. O'CONNOR, FR. OVERBERG

Assisted by: FR. CIVILLE, FR. COOPER, RABBI GOLDMAN

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

Lower Division Course

'111 INTRODUCTION TO THEOLOGY. (3) The method of theology. Mankind's fundamental religious questions with emphasis on the Judaean-Christian experience of God.

Upper Division Courses

'200 EVOLUTION OF CHRISTIAN THEOLOGY. (3) The hermeneutical problem, understanding and handling on the Christian tradition through various ages and cultures. (Limited to majors and other interested and qualified students.)

'203 CHRISTIAN SYSTEMATICS I. (3) Introduction to major systematic questions in Christian theology: faith, God, and Christology. (Limited to majors and other interested and qualified students.)

'204 CHRISTIAN SYSTEMATICS II. (3) Introduction to major systematic questions in Christian theology: Ecclesiology, Christian life, and the catechetical mission of the Church. (Limited to majors and other interested and qualified students.)

'208 MYSTERY OF CHRIST. (3) Current Christological trends with emphasis on Scripture, historical developments, the humanity of Jesus, his resurrection, paschal mystery, presence, evolutionary world view.

'209 CHRISTIAN THOUGHT IN CONTEXT I. (3) The relationship between theology and social context from the sixth century to the Reformation.

'210 CHRISTIAN THOUGHT IN CONTEXT II. (3) The relationship between theology and social context from the Reformation to the present.
Theology


216 SOCIOLOGY OF RELIGION. (3) (So 216).

218 MYTH AND SYMBOL. (3) Religious experiences of primitive peoples as incorporated in stories. Myths, symbols, and images used. What stories, what symbols and images do we use to describe our religious experiences?

219 LIFE AFTER DEATH. (3) The question of possible existence after death; views of contemporary philosophy, psychology, parapsychology, sociology, literature, with special attention given to the Christian, Buddhist and Hindu traditions.

222 CHRISTIAN LIFE AND CELEBRATION. (3) Theology of the Christian life: liturgy, religious psychology, secular involvement, the Christian virtues, prayer, Christian community.

230 ROMAN CATHOLIC CHURCH AFTER VATICAN II. (3) Structure, worship, beliefs, and activities of the Roman Catholic Church, in its history and in light of the principal themes of Vatican II and ongoing developments.

228 CHRISTIAN MINISTRY. (3) Meaning and function of lay and clerical ministry in the Christian (and especially Roman Catholic) community today in light of the NT, church history, and present-day needs.

229 WHY A CHURCH? (3) Nature and relevance of church-organized religion in light of the message of Jesus and of the needs of contemporary society.

232 APPROACHES TO GOD. (3) Divine transcendence and the possibilities of human knowledge and experience of God. Contemporary problems of belief, unbelief, and atheism.

234 AFRICAN AND AFRO-AMERICAN APPROACHES TO THEOLOGY. (3)

235 THE CHURCH IN THE WORLD. (3)

236 THE CHRISTIAN IN THE WORLD. (3) The secularization process in history; secularism and secularity; relation of the sacred and the secular; the Christian’s involvement in the world.

238 WOMEN AND RELIGION. (3) History of Christian teachings on woman’s nature and place, interplay of religion and feminism in the 19th and 20th centuries, emphasis on recent feminist theology.

248 THE END OF THE WORLD. (3) Origin and meaning of expectation of the end of the world in Israel; its central place in the NT, in church history, in contemporary Christianity.

249 GOD IN EVOLUTION. (3) The possibilities offered by process theology for a contemporary interpretation of Christian doctrines.

250 INTRODUCTION TO SCRIPTURE. (3) Introduction to historical, literary and religious development of both Old and New Testaments with emphasis on the use of the tools of scripture study. (One section limited to majors and other interested and qualified students.)


254 PSALMS. (3) A study of the psalms: their literary composition and 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.

256 WISDOM LITERATURE. (3) A study of the writings of the Old Testament which have the perspective of wisdom, such as Job, Ecclesiastes, Sirach.

260 INTRODUCTION TO THE NEW TESTAMENT. (3)

261 WRITINGS OF ST. PAUL. (3) Principal ideas of the Pauline letters and the distinctive contribution of Paul to Christian theology.

262 JOHANNINE LITERATURE. (3) The major themes in St. John’s Gospel and his letters.
Theology

264 SYNOPTIC GOSPELS. (3) Problems involved in reconstructing the life of Jesus; relationship among the synoptic gospels; previous history of the stories they contain (form criticism); particular character of each gospel (redaction criticism).

265 JESUS OF NAZARETH. (3) An investigation of the life and teaching of Jesus in its historical setting.

271 NEW TESTAMENT CHRISTOLOGY. (3) Basis for and meaning of the affirmation that Jesus is the Messiah; other important titles for Jesus; three early interpretations of Jesus.

281 DOUBT AND FAITH IN MODERN LITERATURE. (3) The crisis of faith as expressed in significant works of modern literature, philosophy, and theology. (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) Reading, reading about, and writing autobiography. The process of self-composition and identity. (En 286).

287 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. (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 CHRISTIAN ETHICS: METHOD AND QUESTIONS. (3) Introduction to the methods and central questions of Christian ethics. (Limited to majors and other interested and qualified students.)

304 CHRISTIANITY AND MARXISM. (3) Comparison of some major themes in Christianity and in Marxism; history of Marxist-Christian dialogue in this century.

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.

307 NORTH AMERICAN LIBERATION THEOLOGY. (3)

308 CHURCH AND THIRD WORLD CULTURE. (3) Examination of the evolution of Catholic understanding and treatment of non-European culture over the last 200 years.

309 LIBERATION ETHICS. (3) Beginning with theological themes of Latin American liberation theology, the course focuses on both the underlying social analysis and its implications for the United States.

310 MARRIAGE AND THE FAMILY. (3) An interdisciplinary approach to marriage and the family with the interaction of psychologist, sociologist and theologian. (Ps 310, So 310).

311 FAITH AND JUSTICE. (3) Relationship between Christian faith and social justice viewed in both Christian tradition and recent thought and documents of the Church.

312 CHRISTIAN MEDICAL ETHICS. (3) Evaluation of the options open within medicine—from structuring a health care policy which benefits all equally to deciding on humane ways of dying.

313 CHRISTIAN SEXUAL ETHICS. (3) Ethical criteria Christians use in judging human sexuality from its origins throughout its development. Sex role socialization and common options in sexual behavior.

314 CHRISTIAN BUSINESS ETHICS. (3) Major contemporary issues of economic concern.

315 CONTEMPORARY ETHICAL ISSUES. (3) Current issues in the light of Christian faith, such as nuclear energy, affirmative action, children's rights, apartheid, and the national security state.

316 HUNGER IN THE WORLD. (3) How the hunger issue relates to other social justice issues and some proposals concerning hunger and its elimination.

321 SIN AND GUILT. (3) Biblical concept of sin, contemporary ideas of sin and guilt. Is there any reason to keep such concepts as sin? Does anyone sin anymore?
Theology

'326 THE CHRISTIAN AT PRAYER. (3) Traditional and contemporary topics concerning the theory and practice of Christian prayer.

'327 CHRISTIAN MYSTICISM. (3) Is mysticism a human or divine experience? Is it for everyone? Does it affirm or deny the world? Is it politically informed?

'328 CHRISTIAN WORSHIP I. (3) Ritualization of the Christian experience in Word and Eucharist; ritualization of Christian initiation.

'329 CHRISTIAN WORSHIP II. (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 I. (3) The foundations for a greater ecumenism among all religions; how Christians can come to a more positive attitude towards other religions.

'344 DIALOGUE AMONG WORLD RELIGIONS II. (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 three thousand years: their faith, basic literature, customs and ceremonies; their dramatic historical crises.

'353 THE JEWISH EXPERIENCE II. (3) The Holocaust in Europe during the Hitler period. Analysis of the causes and background of the destruction of European Jewry.

'365 ECUMENICAL DIALOGUE STATEMENTS. (3)

'368 DANTE'S DIVINE COMEDY AS THEOLOGY. (3) The encounter with sin and evil and the return to Innocence and intimacy through purification and transformation.

'369 THE RENAISSANCE. (3) The late medieval church and its social context: the transition from a feudal and agrarian society to one urban and secular. (Hs 215).

'370 THE REFORMATION. (3) Protestant, Catholic and "Anabaptist" attempts to revitalize a Christianity insufficiently Christian. (Hs 216).

'374 AMERICAN RELIGIOUS HISTORY. (3) The relationship between Protestant and Free Church communities and the American ethos.

'376 AMERICAN CATHOLIC HISTORY. (3) The relationship between Roman Catholicism and the American ethos.

'390 SENIOR SEMINAR. (3) Review of theological methodologies in preparation for the senior synthesis paper and examination. (Required of and limited to theology majors.)

'395 DIRECTED STUDY. Credit to be arranged.

'398 CHRISTIAN COMMITMENT I. (3) A special program offered with campus ministry for persons who have not made a commitment to Christianity but wish to make an intensive examination. Admission by interview only.

'399 CHRISTIAN COMMITMENT II. (3) A special program offered with campus ministry focusing on the student's continuing growth in Christian faith. Admission by interview only.
Graduate Courses

501 METHOD IN THEOLOGY. (3)
507 STUDIES IN LUKE-ACTS. (3)
510 PAUL AND THE CORINTHIANS. (3)
515 ISAIAH. (3) A study of the 66 chapters ascribed to Isaiah. Emphasis on historical background, on religious ideas of the author(s), and on commentaries on their works.
530 CONTEMPORARY CHRISTOLOGIES. (3) A study of various systematic approaches to the mystery of Christ and specific Christological models.
535 CHURCH-WORLD RELATIONSHIPS. (3)
540 MODERN CATHOLIC SOCIAL TEACHING. (3)
549 THEOLOGICAL ETHICS. (3) Key concepts of Christian ethics: revelation, the human person, conscience, law, freedom, sin, and authority.
550 ACTION AND CONTEMPLATION. (3)
554 PSALMS. (3) In-depth study of the prayers used by Israel in public and private worship. Elements of literature and poetry will be considered as well as the religious ideas.
556 WISDOM LITERATURE. (3) In-depth study of the wisdom literature of Israel. Emphasis on Job, Proverbs, Ecclesiastes, Sirach.
558 THE PENTATEUCH. (3) A study of the first five books of the Old Testament.
559 CHRISTIAN SPIRITUALITY: PAST AND PRESENT. (3) Divided into two parts, the course will study both the history of Christian spirituality and themes of contemporary spirituality.
560 AUGUSTINE, THOMAS, LUTHER. (3) Relationship between three theologians and their societal and cultural contexts.
561 THEOLOGY OF PRAYER. (3)
565 RELIGIOUS EXPERIENCE: EAST-WEST. (3)
570 PROCESS THEOLOGY. (3)
581 LITURGICAL THEOLOGY. (3)
583 CHRISTIAN INITIATION. (3)
591 THEOLOGY OF KARL RAHNER. (3)
599 SPECIAL STUDY. Credit to be arranged.

601 THE RENAISSANCE. (3)
605 THE REFORMATION. (3)
610 RELIGION IN AMERICA. (3)
615 METHOD IN HISTORICAL THEOLOGY. (3)
630 HISTORY OF EXEGESIS. (3)
635 CHURCH HISTORY AND HISTORIANS. (3)
695 MASTER’S THESIS. (6)
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. VANDERBECK, chairman; MS. ALLEN, MR. BARTON, MR. BEHLER, MR. BERBERICH, DR. CRAIL, MS. EVERT, DR. JANKOWSKE, MR. MALY, DR. MARTIN, MR. R. SCHUTZMAN, MR. SMITH, MR. WILZ

Assisted by: MS. DIRVIN, MR. GRIFFIN, MR. HAGEDORN, MR. IMWALLE, MR. LARSEN, MR. J. SCHUTZMAN, MR. SNIDER

Accounting (Ac)

Lower Division Courses

100 PRINCIPLES OF ACCOUNTING I. (3) Accounting principles, practices, and systems for service and merchandising businesses.

101 PRINCIPLES OF ACCOUNTING II. (3) Accounting for partnerships and corporations; cost accounting and financial statement analysis. Prerequisite: Ac 100.

Upper Division Courses

200 INTERMEDIATE ACCOUNTING I. (3) A broad background of accounting theory and related problems applicable to business enterprises. Prerequisite: Ac 101.

201 INTERMEDIATE ACCOUNTING II. (3) A continuation of ac 200 which is also a prerequisite.

220 COST ACCOUNTING I. (3) A study of elements in industrial production with special emphasis on cost reports; cost classification and cost systems. Prerequisite: Ac 201 or permission of instructor.

221 COST ACCOUNTING II. (3) Budgeting of profits, sales, costs, and expenses; standard costs; gross profit analysis; direct costing and contribution margin; etc. Prerequisite: Ac 220.

230 TAXATION OF INDIVIDUALS. (3) Special emphasis on federal tax law as it relates to individuals.

231 TAXATION OF CAPITAL GAIN, EXCHANGES, ETC. (3) Tax planning as it relates to common problems of individuals, corporations, and partnerships. Prerequisite: Ac 230.

260 ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of the significance, development, and technique of financial statement analyses of business enterprises. Prerequisites: Ac 101, Fi 255. (Fi 260).

297 TUTORIAL COURSE. (2-3) Special reading and study for advanced students.

310 ADVANCED ACCOUNTING. (3) Specialized areas of accounting including business combinations and consolidated financial statements, partnerships, estates and trusts, fund accounting. Prerequisite: Ac 201.

315 CURRENT ACCOUNTING ISSUES. (3) Readings and research in current accounting literature as identified through releases of FASB, AICPA and SEC. Prerequisite: Ac 310.

320 AUDITING. (3) A systems approach. An overview including legal ramifications, risk analysis, evaluation of internal control, designing audit procedures and interpreting results. Prerequisite: Ac 201.

341 SYSTEMS: ANALYSIS AND DESIGN. (3)

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.
Finance (Fi)

Lower Division Course

100 PERSONAL FINANCE. (3) Planning and management of personal finances: credit, savings, insurance, real estate, investment, estate planning.

Upper Division Courses

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

255 BUSINESS FINANCE. (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: Ac 101.

260 ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of the significance, development, and technique of financial statement analysis of business enterprises. Prerequisites: Ac 101, Fi 255. (Ac 260).

265 INVESTMENTS. (3) Techniques of security analysis and portfolio theory and a survey of non-security investments. Prerequisite: Fi 255.

270 FINANCIAL INSTITUTIONS. (3) Study of banking and monetary institutions, financial intermediaries, saving and consumer finance. Prerequisite: Fi 255.

280 SECURITIES AND COMMODITIES MARKETS. (3) Securities and commodities. Method and manner are studied primarily from the viewpoint of business management. Prerequisite: Fi 255.

301 FINANCIAL MANAGEMENT. (3) Major problems and methods used in financing business enterprises are studied primarily from the viewpoint of business management. Prerequisite: Fi 255. (Mg 301).

325 MANAGEMENT CONTROL THROUGH ACCOUNTING. (3) A study of the uses of internal accounting control procedures from a managerial perspective. Prerequisites: Ac 101, Fi 255. (Ac 325).

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Basic quantitative tools and methods. Algebraic and calculus concepts applicable to extensions into linear programming and the financial model of the firm. Prerequisites: Mt 149, 150. (Mg 331).

335 PUBLIC FINANCE AND TAXATION. (3) (Ec 335, Po 335).

380 CASES AND PROBLEMS IN FINANCE. (3) Case method study. The process of decision-making. Analytical techniques useful in handling the quantitative aspects of cases. Prerequisite: Fi 301. Recommended prerequisite: Fi 260.

390 INTERNATIONAL FINANCE. (3) Study of international monetary policy, money and capital markets. Prerequisites: Fi 301, Ec 250.

397 TUTORIAL IN FINANCE. (3) Advanced reading and research in finance. Projects must have the approval of the Chairman.

Approved electives toward accounting requirement: Ac 200, 201, Ac(Fi) 260, 325. Other courses may be approved upon consultation with, and agreement of, the department.

Business Administration (BA)

The following are general business service courses in Business Administration. Professors are assigned to these courses by the other departments in the College of Business Administration.

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.

Graduate Courses

Students selecting courses for the degree of Master of Business Administration must include the six core courses—BA 511, 512, 513, 514, 515, and 516—in their programs. They will include appropriate courses from the offerings for their area of concentration. As a capstone to their work they will take BA 699, a seminar dealing with practical problems.

501 BASIC ECONOMICS. (3) An accelerated course in the principles of economics for M.B.A. 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 FINANCIAL ACCOUNTING. (4) Accounting principles, practices, and systems relating to proprietorships, partnerships, and corporations.

505 BASIC MARKETING. (2) Principles of marketing; concepts, functions, institutions, and policies.

506 BASIC STATISTICS. (2) Descriptive statistics and classical statistical inference.

507 CORPORATE FINANCE. (2) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: BA 503 or equivalent.

511 ECONOMIC ENVIRONMENT. (3) Functions of the economic system; national income; business fluctuations, forecasting, government economics. Keynesian economic analysis, monetary and fiscal policies. Prerequisite: BA 501 or equivalent.

512 QUANTITATIVE BUSINESS METHODS. (3) Probability, PERT, optimization, inventory, linear and non-linear programming, game theory, Markov Analysis, queuing, heuristic programming, etc. Prerequisite: BA 502 or equivalent.

513 MANAGERIAL ACCOUNTING. (3) Management's use of accounting data through the analysis and interpretation of accounting reports and statements. Prerequisites: BA 503, 507 or equivalents. (Waived for undergraduate accounting majors.)

514 MANAGEMENT OF ORGANIZATIONS. (3) Techniques of planning, organizing, directing, and control in business with emphasis on the behavioral aspects.

515 MARKETING STRATEGY. (3) The strategic planning process as it applies to marketing management. Current literature and techniques. Prerequisites: BA 503, 505, and 507 or their equivalents.

516 PROBLEMS IN BUSINESS FINANCE. (3) Financing current operations, policies, promotion, expansion, problems involving financial analysis, and planning of capital structures. Case study method. Prerequisites: BA 503, 507 or equivalents.

525 MULTINATIONAL MANAGEMENT. (3) Planning international trade. Sources of information. Structuring multinational firms. Personnel development, especially communication/motivation.

526 MULTINATIONAL MARKETING. (3) Product decisions, pricing decisions, channel decisions in the world market environment. Stresses cultural differences.


530 MANAGERIAL ECONOMICS. (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. (Ec 530).

532 BUSINESS FORECASTING. (3) (Ec 532).
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>535</td>
<td><strong>BUSINESS AND PUBLIC POLICY.</strong> (3) Government and business in the United States compared with other countries. Practical problems. Trends in regulation. Decision-making as caused, affected, and limited by regulation.</td>
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<td>539</td>
<td><strong>SEMINAR: CURRENT ECONOMIC PROBLEMS.</strong> (3) (Ec 539).</td>
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<td>546</td>
<td><strong>TAXATION OF PARTNERSHIPS AND CORPORATIONS.</strong> (3) Tax problems and planning for partnerships and corporations. Prerequisite: Ac 230.</td>
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<td>547</td>
<td><strong>TAX RESEARCH AND WORKING WITH IRS.</strong> (3) Tax research in the solution to complex problems. Prerequisite: Ac 230.</td>
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<td>548</td>
<td><strong>TAXATION OF GIFTS, ESTATES, AND TRUSTS.</strong> (3) Tax problems in the areas of gifts, estates, and trusts. Prerequisite: Ac 230.</td>
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<td>549</td>
<td><strong>MONEY AND CAPITAL MARKETS.</strong> (3) Financial institutions and markets. The theory of interest rate determination, monetary policy and fiscal policy. Prerequisite: BA 507.</td>
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<td>550</td>
<td><strong>INVESTMENT MANAGEMENT.</strong> (3) Selection and management of a portfolio, based on carefully evaluated probabilities and sound techniques of security analysis. Prerequisite: BA 507 or equivalent. (Ec 552).</td>
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<td>551</td>
<td><strong>CORPORATE FINANCIAL STRATEGY.</strong> (3) Quantitative and nonquantitative methods to problems of working capital management, capital structure and budgeting, fixed asset management, valuation, and profitability. Prerequisite: BA 516.</td>
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<td>552</td>
<td><strong>FINANCIAL PLANNING.</strong> (3) Individual, family, executive, business, corporate, national and international financial planning. Prerequisite: BA 513.</td>
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<td>553</td>
<td><strong>CONTROLLERSHIP.</strong> (3) The planning and control function utilizing the case approach. Prerequisite: BA 513.</td>
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<td>554</td>
<td><strong>CONTEMPORARY PROBLEMS IN ACCOUNTING AND FINANCE.</strong> (3) A timely and relevant coverage of problems in the areas of accounting and finance frequently encountered by business organizations and their executives and employees. Prerequisite: BA 513.</td>
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<td>555</td>
<td><strong>MARKETING MANAGEMENT.</strong> (3) New developments. Individual reports used for practical demonstration of theory application. Prerequisite: BA 515.</td>
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<td>556</td>
<td><strong>MARKETING RESEARCH.</strong> (3) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. Prerequisite: BA 515.</td>
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<td>557</td>
<td><strong>INDUSTRIAL MARKETING.</strong> (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. Prerequisite: BA 515.</td>
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<td>558</td>
<td><strong>CONSUMER BEHAVIOR THEORY.</strong> (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. Prerequisite: BA 515.</td>
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<td>559</td>
<td><strong>ADVERTISING.</strong> (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.</td>
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<td>560</td>
<td><strong>MARKETING AND THE LAW.</strong> (3) Statutory and case law as each affects marketing decision-making. Sales contract, warranties, transfer of the title, remedies under U.C.C.</td>
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<td>561</td>
<td><strong>MARKETING MODELS.</strong> (3) Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: BA 515. (Math or computer background not necessary.)</td>
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<td>562</td>
<td><strong>SEMIN: CONTEMPORARY MARKETING ISSUES.</strong> (3) Current developments in marketing as related to social issues. Consumerism, ecology, social responsibility, ethical issues, and governmental roles. Prerequisite: BA 515.</td>
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<td>563</td>
<td><strong>MARKETING COMMUNICATIONS.</strong> (3) Fundamental behavioral and communications concepts upon which to build a sound marketing communications program. Prerequisite: BA 515.</td>
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<tr>
<td>564</td>
<td><strong>SEMINAR IN ADVERTISING.</strong> (3) This course is designed to allow students to read and discuss several of the classic books on advertising written by famous practitioners. Prerequisites: BA 515, 565 or extensive advertising agency experience.</td>
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</table>
600 ADVANCED ORGANIZATION DEVELOPMENT. (3) Techniques for handling complicated human relations situations. Discussion centers around behavioral readings and their application to actual case situations. Prerequisite: BA 514.

601 MANAGEMENT PLANNING. (3) The planning function of management. Intermediate and long-range planning. Prerequisite: BA 514.

602 MANAGEMENT INFORMATION SYSTEMS. (3) Design and analysis of information systems for management. In particular, realtime MIS is explored in depth. Student project. Prerequisite: IS 100 or equivalent.

603 MATERIALS MANAGEMENT. (3) The materials function in an industrial firm as an integrated activity. Inventory, purchasing, and traffic operations, with a discussion of objectives and measurements. Prerequisite: BA 514.

604 PRODUCTION CONTROL. (3) Advanced production and inventory control concepts and methods. Functions served by inventories. Recommended prerequisite: BA 506 or equivalent.

605 QUALITY CONTROL. (3) Technical, analytical, and managerial knowledge in a statistical context. The economics of cost, organizational impact, and the engineering function. Recommended prerequisite: BA 506 or equivalent.

606 SMALL BUSINESS OPERATION. (3) Organization, location, management, finance, production, and marketing problems of small business are studied. Lecture and case method. Prerequisite: BA 514.

607 SEMINAR: APPLIED INDUSTRIAL MANAGEMENT TECHNIQUES. (3) Interdisciplinary. Solution of industrial management problems. Prerequisite: BA 604 or equivalent.

608 DATA BASE DESIGN. (3) Data base management systems and structures are explored from an implementation point of view. Speakers from industry and a class project implementing a data base are involved. Prerequisite: IS 100 and programmer/analyst experience.

609 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, 352 or equivalent experience.

610 PROBLEMS OF LABOR. (3) An analysis of labor-management problems through the use of the "Incident Process." Prerequisite: BA 514.

611 ADVANCED BUSINESS COMMUNICATIONS. (3) Fundamentals of executive written and oral communication skills. Prerequisite: BA 514.

612 SEMINAR: COLLECTIVE BARGAINING. (3) The historical development of collective bargaining. Problems that arise in the day-to-day administration of the labor-management agreement. Prerequisite: BA 514.

613 PERSONNEL AND THE LAW. (3) The historical development, current status, and economic implications of laws enacted by various levels of government to protect the worker's basic needs in our society. Prerequisite: BA 514.

614 MANAGEMENT OF THE PERSONNEL FUNCTION. (3) Selecting, utilizing, and developing human resources in view of the total organization. Interpersonal communication processes. Prerequisite: BA 514.

615 PERSONNEL SELECTION AND DEVELOPMENT. (3) Principles underlying sound practices in personnel selection, training, and development. The development of programs in these areas. Prerequisite: BA 514.

616 PSYCHOLOGY OF JOB STRESS. (3) The causes of job stress are studied in an industrial work environment and solutions to relieve stress on the job are examined. Prerequisite: BA 514.

620 QUANTITATIVE DECISION-MAKING. (3) Strategies of decision-making, cost of information, revision of decisions, decision trees, theory of utility, and evaluation of competing alternatives. Prerequisite: BA 512.

622 **OPTIMIZATION I: LINEAR AND INTEGER PROGRAMMING.** (3) Topics covered include the simplex and dual simplex algorithms, duality, sensitivity analysis, and integer programming. Prerequisite: BA 512.

623 **OPTIMIZATION II: NON-LINEAR AND DYNAMIC PROGRAMMING.** (3) Topics covered include constrained and unconstrained optimization techniques, Kuhn-Tucker conditions, Quadratic Programming, discrete and continuous dynamic programming. Applications to business problems will be emphasized. Prerequisite: BA 512.

624 **APPLICATION OF OR TECHNIQUES.** (3) Business cases will be used to illustrate various areas of Operations Research, such as linear and integer programming, inventory control, queuing theory, decision theory and simulation. Prerequisite: BA 512.

625 **SURVEY SAMPLING IN BUSINESS.** (3) Phases involved in survey research. Student research project. Prerequisite: BA 512.

626 **APPLIED STATISTICAL ANALYSIS.** (3) Test of hypotheses, estimation, models, design of experiments, regression analysis, and non-parametric statistics. Prerequisite: BA 512.

629 **SEMINAR IN QUANTITATIVE METHODS: CURRENT TRENDS IN MANAGEMENT SCIENCE.** (3) A seminar that focuses on current quantitative methods topics of a theoretical and a practical nature. Prerequisite: BA 512.

644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS.** (3) The role of motivation in performance within organizations. Various concepts of motivation are studied, emphasizing research findings. Prerequisite: BA 514. (Ed 644, Ps 644).

645 **HUMANISTIC MANAGEMENT.** (3) The concepts of Transactional Analysis, Gestalt, Value Clarification, Reality Therapy, Encounter Groups, Communication Theory are studied as to their impact on the management process. Prerequisite: BA 514 or permission of instructor.

646 **CONSTRUCTIVE CREATIVITY IN BUSINESS.** (3) Creative problem study processes, focusing on identification and analysis of problems and new opportunities, generation and selection of solutions, and getting solutions accepted and implemented. Prerequisite: BA 514.

650 **SURVEY OF MIS APPLICATION.** (3) Speakers will augment the classroom discussion in examining how management use information systems in the past, today, and in the future. Prerequisite: IS 100 or equivalent.

651 **DECISION SUPPORT SYSTEMS.** (3) The focus of this course is on manager/computer interaction in a semi-structured environment. A student project is required. Examination of the development from management Information systems is pursued. Prerequisite: IS 100 or equivalent.

652 **TOPICS IN MANAGEMENT INFORMATION SYSTEMS.** (3) New trends and concepts in management information not covered in other courses are presented. Prerequisite: IS 100 or equivalent.

653 **APPLICATION OF CURRENT TECHNIQUES TO MANAGEMENT INFORMATION SYSTEMS.** (3) Heuristic programming, search space optimization, problem simplification, and other state of the art techniques to Information retrieval and management Information systems are studied. Prerequisites: IS 100 and programming/analysis experience.

689 **PRACTICUM: PERSONNEL TRAINING, EDUCATION AND DEVELOPMENT I.** (3) Fee: $100.00.

670 **PRACTICUM: PERSONNEL TRAINING, EDUCATION AND DEVELOPMENT II.** (3) Fee: $100.00.

684 **PERSONNEL TRAINING, EDUCATION AND DEVELOPMENT.** (3) (Ed 684).

685 **ORGANIZATIONAL COMMUNICATION.** (3) A survey of intra, inter and group communication skills as applied to the organizational setting. Review of current research, as well as experiential exercises will be emphasized. (Ed 685).
### Economics (Ec) and Industrial Relations (IR)

**Economics (Ec)**

#### Lower Division Courses

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>101</td>
<td>MACROECONOMIC PRINCIPLES</td>
<td>3</td>
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<tr>
<td>102</td>
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#### Upper Division Courses

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**Staff:** DR. KUZINA, chairman; DR. H. BRYANT, DR. DONNELLY, DR. HAILSTONES, MS. HARMON, DR. MARMO, DR. MASTRIANNA, FR. PETERSON, MR. ROTHWELL, DR. SCHULTZ, DR. ZIMMERMAN

**Assisted by:** DR. FREIBURG, MS. GUBSER, DR. HEHMAN, DR. TUREL, DR. WEBB

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.
240 ECONOMIC GEOGRAPHY. (3) Location of economic activity and factors affecting or affected by such location. Economics of natural resources.

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) Principles of money, credit and banking, including monetary theory and functions of a central bank, such as the Federal Reserve System. 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).


325 INDUSTRIAL ORGANIZATION. (3) Basic conditions, market structures, conduct and performance of American industry. Public policy as related to the problems of bigness and monopolization. Prerequisite: Ec 200.

330 ECONOMICS AND PUBLIC POLICY. (3) Examination of policies to promote competition. Analysis of mergers, patents, and restrictive business practices. Study of regulated industries and public enterprise. Prerequisite: Ec 102.

335 PUBLIC FINANCE. (3) Role of government in the economy and an analysis of the principles of government expenditure and taxation. Prerequisite: Ec 200.

344 ECONOMICS OF INTERNATIONAL RELATIONS. (3) Course in international economics for non-economics majors. Prerequisites: Ec 101, 102.


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. Emphasis on forecasting, demand and cost estimation, pricing techniques. Prerequisites: Ec 102, Mt 150.

395 SEMINAR: 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.

Graduate Courses

527 MULTINATIONAL TRADE AND FINANCE. (3) (BA 527).

530 MANAGERIAL ECONOMICS. (3) (BA 530).

552 BUSINESS FORECASTING. (3) (BA 532).

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

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

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

Industrial Relations (IR)

Upper Division Courses

*210 HUMAN RESOURCES. (3) (Eq 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).
Management

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) Worker’s movements in the U.S.; comparison of characteristics of different organizations from the Colonial period to the present. (Ec 311).

312 PROBLEMS OF MANAGEMENT AND LABOR. (3) (Mg 312).

313 LABOR LAW. (3) Development of labor law in the U.S.; emphasis on laws treating injunctions, worker combinations, labor-management relations, internal union affairs, and working conditions. (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).

395 CASES AND PROBLEMS IN PERSONNEL RELATIONS. (3) Case studies in selected personnel problems with emphasis on the application of relevant behavioral science research and concepts.

397 TUTORIAL COURSE. (2-3) Contents to be determined according to the needs of the student.

Approved Electives: Upon consultation with, and approval of, the department.

Management (Mg) and Information Systems (IS)

Staff: DR. JERRY ANDERSON, chairman; MR. BIALAC, DR. CAMEALY, DR. GEEDEING, MR. HALL, DR. HAYES, DR. KLEKAMP, DR. KRAMER, MS. RUWE, DR. THIERAUF

Assisted by: DR. BASADUR, MR. BISSMEYER, MR. BROXTERMAN, DR. COLLIGAN, MR. COSCO, DR. COSGROVE, MR. GARTNER, MR. GEHNER, MR. GREGORY, DR. HANSEN, MR. HAVILL, MR. HENNIE, DR. KLEE, MR. LOHAUS, MR. MARTIN, MR. MEEKER, MR. McCOLLOUGH, MR. MORAN, MR. NIEHAUS, DR. QUATMAN, MR. REYNOLDS, MR. SCHUMACHER, DR. SMITH, MR. STONE, MR. TOTH, MR. TRUNNELL, MR. VASIC, DR. WEISSBUCH, MS. WILKINS, MR. WINTZ, MR. WOOD

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

Management (Mg)

Lower Division Course

*100 PRINCIPLES OF MANAGEMENT. (3) The process of management applicable to forms of business organization. Emphasis on planning, organizing, directing, and controlling. Essentials of the production function are covered.

Upper Division Courses

*210 HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of cause and remedies of unemployment. (Ec 210, IR 210).

*300 LABOR RELATIONS. (3) Issues and problems involved in union-management relations. Examination of collective bargaining as a method for resolving labor disputes in our economic system. Prerequisite: Mg 100. (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. (Fi 301).

302 PRODUCTION MANAGEMENT. (3) Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisites: Mg 100, Mt 149, 150.
SMALL BUSINESS MANAGEMENT. (3) Marketing, production, finance, organization and location problems of small business organizations. Prerequisite: Mg 100.

ORGANIZATION BEHAVIOR. (3) Current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized. Prerequisite: Mg 100.

RESEARCH MANAGEMENT. (3) Application of research methods to selected managerial problems. Prerequisite: Mg 100.

CONTEMPORARY MANAGEMENT ISSUES. (3) Recent issues facing contemporary managers. Topics include minority hiring, consumer protectionism, energy conservation, pollution control, ecological constraints, and government regulations. Prerequisite: Mg 100.

MANAGERIAL METHODS. (3) Managerial techniques for optimum information flow and effectiveness: process charting, work and time measurement, performance rating, work sampling, and paperwork procedures. Prerequisite: Mg 100.

MANAGERIAL PROBLEM FORMULATION. (3) Cases designed to reinforce knowledge of the mechanics of the management process. Prerequisite: Mg 100.

ORGANIZATIONAL THEORY AND DESIGN. (3) Theory and design of organizational structures as applied to business firm. Prerequisite: Mg 100.

COMPLEX ORGANIZATIONS. (3) Treats the theory and practice of complex organizations in business, education, and government. Prerequisite: Mg 100. (So 316).

ADVANCED MANAGEMENT SEMINAR. (3) Principles of humanistic approaches to management thought. Transactional Analysis. Prerequisite: Mg 100.

PERSONNEL ADMINISTRATION. (3) Selection, training, and development of organization personnel, with emphasis on present personnel principles and practices. Prerequisite: Mg 100. (IR 320).

INDUSTRIAL PSYCHOLOGY. (3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American Industry. Prerequisite: Mg 100. (Ps 251).

PROBLEMS OF MANAGEMENT AND LABOR. (3) Depicts the interactions of management problems with labor and conflict resolution. Prerequisite: Mg 100.

BUSINESS COMMUNICATIONS. (3) Essentials of communicating effectively in business with accent on written and oral communication skills. Prerequisite: Mg 100.

ACCOUNTING FOR MANAGEMENT DECISIONS. (3) Treats the analysis of accounting and financial information to assist in effective managerial decision-making. Prerequisites: Ac 100, 101, Mg 100. (Fl 260).

MANAGEMENT CONTROL THROUGH ACCOUNTING. (3) A study of the uses of internal accounting control procedures from a managerial perspective. Prerequisites: Ac 101, Fl 255. (Ac 325, Fl 325).

PURCHASING. (3) Principles and practices of purchasing. Techniques in making decisions on quality and quantity at the right prices. Price policies, sources of supplies, and standards of performance. Prerequisite: Mg 100.

PUBLIC-SECTOR MANAGEMENT. (3) Management of public-sector organizations as tempered by governmental constraints; i.e., lack of profit motive, civil service restrictions, traditionalism, new public awareness, and productivity measures. Prerequisite: Mg 100.

INTRODUCTION TO QUANTITATIVE METHODS. (3) Algebra, vectors, matrix algebra, differentiation, integration, and differential equations relevant to economic management. (BA 502).

APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Application of higher mathematics to recurring business problems. Basic operations research techniques are covered. Prerequisites: Mt 149, 150.

COMPUTER OPERATIONS MANAGEMENT. (3) Practical problems confronted by the computer operations manager. Organization control and scheduling functions. Environmental considerations. Prerequisite: IS 100 or equivalent. (IS 340).
Information Systems

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 equivalent. (Ac 342, IS 342).

350 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 350, IS 350).

395 CASE STUDIES IN MANAGEMENT. (3) Case studies involving conventional management practices applied to organizations. Orientation is toward planning, organizing, directing, and controlling production, personnel and other management concerns. Prerequisite: Mg 100.

397 TUTORIAL COURSE. (3) Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.

Approved Electives: Upon consultation with, and approval of, the department.

Information Systems (IS)

Lower Division Course

100 PRINCIPLES OF DATA PROCESSING. (3) Systems and the concepts of data processing. The student will gain actual experience using the "BASIC" language in a time-sharing mode. Not both IS 100 and CS 124 may be taken for credit.

Upper Division Courses

Note: IS 100 is a prerequisite for all upper division courses.

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) Basic operations research techniques covered include: linear programming, transportation model, decision theory, PERT, and simulation. Prerequisites: Mt 149, 150.

338 NUMERICAL COMPUTATIONS. (2-3) Introduction to scientific applications of the computer. Computer arithmetic and error analysis. Computational aspects of function evaluation, non-linear equations, approximation of functions, numerical differentiation, integration, and solution of differential equations. Prerequisites: IS 100, Mt 150. (CS 138).

340 COMPUTER OPERATIONS PROJECT MANAGEMENT. (3) Practical problems confronted by the computer operations manager. Organizational control and scheduling functions. Programming project management. Hardware and software specification and selection. Prerequisite: IS 100 or equivalent. (Mg 340).

342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of computer systems. Prerequisite: IS 100 or equivalent. (Ac 342, Mg 342).

344 SURVEY OF DATA PROCESSING APPLICATIONS. (3) Current management information applications and problems are discussed. Guest speakers provide real world experiences. Prerequisite: IS 100 or equivalent.

350 SYSTEMS ANALYSIS AND DESIGN. (3) Analysis and design of Batch and Interactive computer systems. Work simplification for improved data processing methods and procedures. Prerequisite: IS 100 or equivalent. (Ac 350, Mg 350).

352 DATA PROCESSING INFORMATION SYSTEMS. (3) The design of actual information processing systems with emphasis on distributed processing systems. Student project. Prerequisites: IS 350, 364.

356 DATA STRUCTURES. (3) Linear lists, strings and arrays; trees and graphs; storage structures, allocation and collection, symbol tables, sorting, and formal data structures. Prerequisites: IS 100, 360. (CS 325).

357 INTRODUCTION TO DATA COMMUNICATIONS. (3) The categories of data communication that will be studied include: telephone, teleprocessing, electronic funds transfer, word processing, electronic mail, and teleconferences. Prerequisite: IS 100.

194
PRINCIPLES OF DATA BASE MANAGEMENT. (3) The basic concepts of data base management and information storage and retrieval will be covered. These include security, automatic document retrieval, inverted files, and uniform classification. The logical and physical organization of data bases, schemes, and data base administration will be included. Prerequisite: IS 350.

COMPUTER AUDITING. (3) Auditing around and through the computer. (Ac 326).

ASSEMBLY LANGUAGE. (3) Features of assembly language programming. Data representation, number systems, data movement, arithmetic, program control. Prerequisite: IS 100 or equivalent or consent of instructor. (CS 255).

ASSEMBLY LANGUAGE PROJECT. (2) Substantial programming project in assembler language. Prerequisite: IS 360. (CS 256).

COBOL PROGRAMMING. (3) COBOL computer programming language. Writing programs and computer experience. Problems in business data processing. Prerequisite: IS 100 and secondary math proficiency (cf. page 35) or consent of instructor. (CS 132).

ADVANCED COBOL PROGRAMMING. (3) Substantial COBOL programming assignments. In-depth study of file management. Prerequisite: IS 364. (CS 252).

FORTRAN PROGRAMMING. (3) FORTRAN-IV computer programming language. Writing programs and computer experiences in business. Prerequisite: IS 100 and secondary math proficiency. (CS 113).

STRUCTURED PROGRAMMING TECHNIQUES. (3) The techniques of structured style in computer languages. Structured programming, programming productivity techniques, and structured run-throughs are used in conjunction with a major class project. Prerequisite: COBOL or "BASIC" experience and permission of instructor.

SPECIAL TOPICS IN INFORMATION SYSTEMS. (3) New trends and concepts in Information systems not covered in other courses will be offered. Prerequisite: Permission of instructor.

TUTORIAL COURSE. (2-3) Research in scholarly journals on Information systems importance. Open only to students with the consent of the Department Chairman. Approved Electives: Upon consultation with, and approval of, the department.

Marketing (Mk)

Staff: DR. TREBBI, chairman; MR. ADLER, MR. CARUSO, MR. HAYES, DR. KUMPF, MR. SCHERTZER, DR. VANKIRK, DR. WEBB

Assisted by: MR. BROWN, MR. DORWARD, MR. HOLT, MR. HULL, MR. LANDSMA, MR. MEARS, MR. PITCAIRN, MR. SHORT, MR. THOMAS, MR. ZANGLIN

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

Lower Division Course

100 PRINCIPLES OF MARKETING. (3) Marketing concepts, functions, institutions, and policies. Marketing's role in society. Prerequisite for upper division courses unless waived by Department Chairman.

Upper Division Courses

202 MARKETING RESEARCH. (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: BA 270.

204 MARKETING MANAGEMENT. (3) Marketing planning. The coordination of all aspects of marketing. Efficient utilization of resources. Prerequisites: Mk 202 and three hours of upper division marketing.

Marketing

219 BROADCAST STATION SALES. (3).

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.


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 at 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. Prerequisites: Mk 204 and six hours of upper division courses in marketing.

331 APPLIED QUANTITATIVE METHODS FOR BUSINESS. (3) (Mg 331).

Institute for Business and Community Services

Staff: DR. DAN GEEDING, Institute Director; ALICE RASTANI, Associate Director; FR. RAPHAEL DOMZALL, Director of Religious Programs; SUE BENSMA and KAREN HAYDEN, Program Coordinators

Assisted by: MEMBERS OF THE XAVIER UNIVERSITY FACULTY AND RESOURCE PERSONNEL FROM LOCAL AND NATIONAL SOURCES

Numerous short-term seminars and workshops as well as consultation and conference planning are offered by the University through the Institute for Business and Community Services.
Program —
College of Continuing Education

Real Estate (RE)
Staff: DR. HELMES, chairman; MR. DUFFY, program coordinator; MR. BREED, MR. CAROSELLI, MR. KELLER, MR. KLEINHAUS, MR. LEVINE, MR. MORROW


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

Upper Division Course
488 HUMAN RIGHTS AND DIGNITY IN THE HELPING PROFESSIONS. (2) (Ed 488, Ps 488, So 488).
Corrections

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.

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.

566 CRIME AND PERSONALITY. (3) (Ps 266, Ed 266).

576 PSYCHOLOGY OF DELINQUENCY. (2) (Ps 276, Ed 276).

580 INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom). (2) Field observation, case analysis, special readings, or data evaluation. Taken concurrently with Cr 590.

581 CORRECTIONAL/SOCIAL RESEARCH. (3)

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)
Hospital and Health Administration (HA)

Staff: PROF. ARLINGHAUS, director; DR. BOCKLET, associate director; DR. GEROWITZ, DR. MARTIN, MS. RUWE

Assisted by: MR. BECKMAN, MR. BROOKS, DR. COPELAND, MR. DARBY, MR. DOYLE, MR. FALBERG, MR. GARLAND, MS. OLMAN, DR. PHILIPPS, MR. ROBERTO, MR. WILLIAMS, MR. WILZ, DR. WRIGHT

510 HOSPITAL ORGANIZATIONAL THEORY. (3) Analysis of the hospital organization, policy-making roles, organization and operation of functional elements of the hospital. The institutional planning process.

520 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.

530 HEALTH INFORMATION SYSTEMS. (3) Analysis and design of information systems for hospitals, health planning agencies, and other health organizations. Management information systems and clinical support systems.

540 PSYCHOLOGY OF EXECUTIVE BEHAVIOR. (3) Techniques for complicated human relations situations. Psychological (behavioral) and sociological readings and their application to actual situations.

550 HOSPITAL LEGAL ASPECTS. (3) Law as it relates to hospitals. Conflict of interest, contracts, consent, liability, insurance. Labor law.

560 SEMINAR—HEALTH CARE ADMINISTRATION. (3) Case and incident methods. The changing environment in hospital and health care delivery. Hospital administration problems.

570 CURRENT TRENDS IN MEDICINE. (3) Trends in the practices of the healing professions. Concepts of health and disease.

610 QUANTITATIVE TECHNIQUES FOR HEALTH ADMINISTRATORS. (3) Operations research and statistics applied to health administration problems. Linear programming. Queuing theory. Economic analysis. Simulation.


650 HEALTH CARE PLANNING AND DEVELOPMENT. (3) Examines the programs 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.

697 SPECIAL STUDY. (2-6) Credit to be arranged.

698 ADMINISTRATIVE RESIDENCY. (9) Twelve months.

699 MASTER'S THESIS. (3)
The Graduate School

Administrative Officers

DAVID C. FLASPOHLER, Ph.D.
Dean

THOMAS H. HANNA, Ed.D.
Associate Dean

DORIS R. WOLF, M.Ed.
Administrative Assistant

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

JOHN P. PATTON, Ph.D.
Assistant to the Dean

JAMES P. McCoy, A.B.
Administrative Assistant

The Graduate Council

DAVID C. FLASPOHLER, Ph.D.
(Chairman) Dean, Graduate School

ALBERT A. BOCKLET, Ph.D.

MICHAEL E. ENDRES, Ph.D.

RICHARD J. GARASCIA, Ph.D.

SISTER RUTH GRAF, R.S.M., Ph.D.

RICHARD L. GRUBER, Ph.D.

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

THOMAS H. HANNA, Ed.D.
(Secretary) Associate Dean, Graduate School

FRANCIS V. MASTRIANNA, Ph.D.

MARTHA A. McDERMOTT, M.Ed.

KENNETH T. SCHEURER, M.Ed.

EDWARD F. WILZ, M.B.A., C.P.A.

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 of Xavier University opened as a separate unit in 1946. Its first graduate degrees were awarded in 1947. Historically, however, graduate degrees were awarded by St. Xavier College in the early 1900's. In 1952 the Master of Business Administration program was added. These degree programs are offered: the Master of Arts in English, history, psychology, theology, and, in summers only, philosophy; the Master of Science in chemistry and corrections; the Master of Education; the Master of Business Administration; the Master of Business
Graduate School 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 program. Students not in degree status are technically classified as special students until candidacy has been approved.

Provisional students are those students accepted with a deficiency of an academic or administrative nature which must be removed before they may apply for candidacy as a degree student.

Special students are those pursuing graduate courses without intent of completing a graduate degree. They may pursue these courses with profit 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 having a bachelor's degree from an accredited institution, and also present official transcripts from each college in which credit was obtained. Others may be registered conditionally.

An applicant with a bachelor's degree from a non-accredited institution is not admitted to full graduate standing until he has successfully completed at least six hours of graduate work with the required grades, and has been accepted by the department which controls his program. Certain 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 student's major subject must decide on the student's preparation for graduate study in that department; and the chairman or one appointed by him will be the student's advisor throughout. The general prerequisites for graduate work in any department must generally be the equivalent of an undergraduate major at Xavier University.

Notification of acceptance or rejection is sent to each applicant as soon as possible after the receipt of his application and pertinent transcript(s). The Dean of the Graduate School will deny admission if the applicant's record of scholarship is not sufficiently distinguished, or if his undergraduate program is judged inadequate for advanced academic or professional study.

Seniors of satisfactory academic standing who are within nine hours of completing their undergraduate requirements for the bachelor's degree may, in their last semester, register for graduate work, providing that these courses are in excess of the requirements for the bachelor's degree.

Official acceptance for graduate study is good for a two-year period from the 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.

No credit will be honored toward a master's degree if taken at another university after admission to a Xavier graduate program unless the course work has been approved in writing by a Xavier University adviser (Dean, Department Chairman, or other authorized administrator).

Xavier University is non-discriminatory on the bases of age, sex, race, color, religion, handicap, national, or ethnic origin.

201
Graduate School

Admission—International Students

International students must apply on special application forms available through the Graduate Office and must comply with all requirements for admission before formal acceptance will be granted and an I-20 form issued.

Because of the extensive processing required of applicants from foreign countries, no application for an academic school year beginning in September will be accepted from an international student not within the United States after May 15 for the ensuing academic school year.

International students within the United States attending other accredited institutions of higher learning must apply and submit all documents and other requirements prior to June 15 if they wish acceptance for the academic school year beginning in September. Such students may be accepted for a subsequent semester or summer session if they apply after June 15.

Students must provide the Graduate Office in advance of acceptance with evidence of proficiency in the English language (TOEFL score is preferred), evidence of financial resources or sponsorship to pay tuition, fees, and living expenses while at Xavier, one official copy of their total college or university academic record from all schools attended (mark sheets should be provided where pertinent), three letters of reference including character and academic recommendations, an official medical examination report or certificate of health dated within one year of application, and the GMAT score if application is for the M.B.A. program. Transcripts must bear the original signature (not a photograph) of the authorized official and the original seal (not a photograph) of the institution to be acceptable. Attested or “true” copies are not acceptable unless certified by an authorized official. All documents not issued in English by the officials signing them must be accompanied by certified English translations. Direct all information to “Graduate International Student Advisor” at Xavier University.

Xavier does not accept students in the U.S. on visitor’s visas, or students who enter the U.S. on I-20 forms issued by another university unless the student attends that institution for at least one quarter or semester. Female students must reside in a campus dormitory unless sponsored by a local American family.

Students accepted for study must obtain accident and sickness insurance coverage as a condition of admission, and must keep the insurance in force at all times while in student status at the University.

Xavier University does not place students in jobs for the purpose of practical training after graduation.

Academic Contract

Completion of the registration process on the part of the 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 provisions, regulations, and requirements that can reasonably be implied from such express catalogue provisions. However, the University reserves the right to modify tuition and the amount or number of fees at the beginning of any academic years subsequent to the student’s initial registration. Continuation as a student in good standing is a condition of compliance with the terms of the Academic Contract.

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 chairman 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 semester 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 session without special permission. Permission to take more than seven hours must be obtained from one of the Deans. Ordinarily it will not be granted.
Graduate School

Intersession Courses; Tutorials; Special Study; Pass/Fail Course Work.

A maximum of six semester hours of intersession course work 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 not 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 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 readmitted 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 Master's programs are presented later in this section. Though advisory services are provided to assist all students, the student alone is responsible for following the procedures and completing the steps required in his program. Requirements of the Graduate School, both procedural and substantive, may be waived only by written request of the student and/or department chairman concerned and must have the written approval of the Dean of the Graduate School.

Distribution of the course requirements must be approved by the chairman of the department of the major subject. At least one-half of the courses must be in that department. Candidates, however, for the Master of Arts and Master of Science degrees are advised to take all their work in their major department.

Character of the courses required is subject to the decision of the advisor. At least one-half of the hours of credit in the major subject and one-half the total number of hours toward the degree must be obtained in courses numbered 500 to 799, distinctly graduate courses.

Student Responsibility

It is the responsibility of the graduate student to become self-informed concerning all regulations and procedures required by the course of study being pursued. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation or asserts that information was not given by an advisor or other authority. Students should become familiar with the Graduate School section of the University catalogue including (1) the section presenting the requirements for the degree being pursued, and (2) the offerings and requirements of the student's major department. The Department Chairman should be consulted concerning requirement deficiencies, the planning of a program, and special regulations.

It is to be noted that the Graduate Dean interprets the Graduate School section of the catalogue. Only the Graduate Council may waive requirements stated herein.
Graduate School

Course Numbers

This is the system of numbering courses:

- 100 to 199 Lower division courses
- 200 to 499 Upper division courses, open to graduate students for graduate credit except where specified as for undergraduate credit only
- 500 to 799 Courses for graduate credit only, open to graduate students only

Examinations

Candidates for graduate degrees, with the exception of the M.B.A. degree, shall be required to pass a final comprehensive examination, oral or written. This examination is oral in all programs requiring a thesis. It shall be the policy of the Graduate School to give these examinations three weeks prior to the end of the final semester. The chairman of the major department or one appointed by him shall be chairman of the examining committee and be responsible for giving the examination. A student must pass other examinations required by his major department.

The matter for the examination shall be based primarily on the student’s courses and, if he is a candidate for the Master of Arts or Master of Science degree, on his thesis if a thesis is required in his program. It is understood, however, that a candidate’s general knowledge of his field must be found satisfactory by his examiners.

A student who fails to pass the final comprehensive examination may appeal to the departmental chairman of the student’s major to repeat the examination during a subsequent semester or session (only one examination is permitted during the summer). A second failure will result in termination of candidacy for a degree.

Thesis

The thesis required for the Master of Arts or Master of Science degree should embody the results of the applicant’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—summers, 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 date.

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.

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.

* See page 220 for M.B.A. exceptions.
Graduate School

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 refresher course work as determined by an advisor. All degree requirements must be met within two years of the date of reactivation.

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—above average attainment; C—work of minimum or average attainment; S—satisfactory; D—inferior, no graduate credit; F—failure; U—unsatisfactory. To obtain credit graduate students must do work of 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 of W (Withdrawn) and I (Incomplete) are awarded. Partial transcripts showing only course work 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 within thirty days after the last day of the semester in which the course was taken. This time limit may be extended only if the student requests an extension with an agreement specifying another date. The agreement must be signed by both the student and the professor and must be submitted to the Graduate Office within the thirty day limit. After the time limit for a change has passed, the grade becomes a permanent “I.” No grade may be altered under any circumstances after five years from the end of the term in which the course was taken.

Repetition of Courses

Courses completed in a student’s undergraduate program may not be repeated for graduate credit.

Probation

One unsatisfactory grade (below C in courses in the 500-799-series, below B in courses in the 200-499-series) places a graduate student on probation; two such grades makes him ineligible to reregister 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 academic credit. Lack of reasonable attendance as determined by the Graduate Council, Graduate Dean, and faculty members concerned is reason for denial of credit for a course and possible course failure.

Dismissal

The Graduate School reserves the right to dismiss from any graduate degree program any student whose quality of class work 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.

A limit of six semester hours of graduate course work obtained in the Greater Cincinnati Consortium of Colleges and Universities may be applied to a master's degree taken at Xavier. Exceptions to this requirement may be made only by the Dean. All Consortium course work must be approved by the student's department chairman before registration for the course work.

As a matter of policy, the Graduate School does not enter course work completed at other universities on its permanent records unless the course work applies toward a Xavier University advanced degree or pertains to certification recommended by the University.

Graduate Credit Transferable

Ordinarily no graduate credit completed at another university is transferable toward a graduate degree at Xavier once the student has begun 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.

No credit earned at another university after a degree program has been started at Xavier will be accepted toward the Xavier graduate degree unless prior permission to take the course work has been obtained from the Graduate Dean.

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.

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 to state officials where required by state law which was adopted prior to November 19, 1974, accrediting institutions, or to appropriate persons if in the judgment of one of the Graduate School deans the knowledge of such information is necessary to protect the health or safety of the student or other persons.

Students' files are made available to Xavier University officials including faculty members who have legitimate educational interests. A student may examine his or her own file except for closed recommendations at any time upon twenty-four hours notice in writing to the Graduate Office. Closed recommendations are those 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 give a written release to the Graduate Office for the individual to use or review the file. A written record of each such review will be maintained in the student's file along with a copy of the release. A student must give the Graduate Office a written release if it is desired that material from his or her file be sent outside the University. Transcripts 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 a nominal student fee 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.

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 Residence Life, 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 IBM 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 over 240,000 volumes of books, more than 1,700 periodical subscriptions, 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 research libraries to Xavier University students. A fuller description of the library is on page 14. Numerous departments of the University maintain department collections within their own buildings.

Graduate students wishing to keep books in the library may obtain a locker on an 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 of Veterans' Educational Benefits, Xavier University, Cincinnati, Ohio 45207.

International Student Advisor

The Graduate School's International Student Advisor will assist international students with such problems as adjustment to University life, requirements of the Immigration Service, and social matters. The department chairman handles the student's academic 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 $2,300-$2,500 each.
Graduate School

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 should apply.

3. Applications should be made by letter addressed to the Dean of the Graduate School, Xavier University, Cincinnati, Ohio 45207. An application for admission to graduate study must also be submitted with the scholarship letter 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. Assistants are expected to devote about half-time to graduate studies and about half-time to service in the department.

Letters of application should be addressed to the chairman of the department concerned.

A complete transcript of the applicant's undergraduate record and letters of recommendation from the chairman of the applicant's undergraduate department and one other professor should be sent directly to the chairman of the department at Xavier University.

All 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*

| Matriculation: Cincinnati (payable once) | $10.00 |
| Matriculation: Columbus and Lexington (payable once) | $15.00 |
| Tuition: Education, Arts, Science courses except Psychology (per semester hour) | $84.00 |
| MA Psychology (per semester hour) | $90.00 |
| **Tuition for Teachers (per semester hour)** | **$177.00** |
| Tuition: Business Administration, Hospital and Health Administration courses (per semester hour) | $8.00 |
| Tuition: Education and Corrections, Columbus, Ohio | $86.00 |
| Business Administration, Columbus, Ohio | $103.00 |
| Business Administration, Lexington, Ky. | $103.00 |
| Miller Analogies Test (Taken in group sessions) | $10.00 |
| (Administered individually) | $12.00 |
| Graduate Management Admission Test | $23.50 |
| Graduation fee | $30.00 |
| MBA students only | $37.50 |
| Binding of thesis fee (Library copy) | $8.50 |

†Full-time teachers and school personnel. Discount of $7.00 per credit hour applies.

*Expenses listed are for the 1980-1981 academic year. Changes are made in these rates from time-to-time.
Laboratory science fee (per course per semester for Biology, Chemistry, Physics, Experimental Psychology, and Physiological Psychology) $30.00
Laboratory science deposit (per course per semester—partially refundable) $10.00
Laboratory materials deposit for physical science thesis (payable once—partially refundable) $75.00
Parking fee
Full-time student $23.00
Part-time student $12.00
Auditors taking graduate courses pay same tuition and fees as credit students. Auditors taking courses for undergraduate course audit pay 50% of the total tuition charge plus applicable fees.
Graduate students taking undergraduate courses for undergraduate credit are charged undergraduate fees as shown on pages 25 and 26. Individual course fees are shown with course descriptions. See undergraduate fees for laboratory fees.

Students awarded their degree as of August or December must pay all outstanding financial obligations including the Graduation Fee before a transcript showing the degree will be released. Students receiving their degree as of May must pay all tuition and fees including the Graduation Fee by May 1. The Graduation Fee must be paid by every student who graduates, whether in person or in absentia (with permission).

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% 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.

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. Ceasing 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.

*Expenses listed are for the 1980-1981 academic year. Changes are made in these rates from time-to-time.
Graduate School

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.

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</th>
<th></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 Intersessions

For tuition refund schedules for summer sessions and intersessions, 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 ticket 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 maintained in the Bursar’s Office. University policies with respect to the satisfaction of all payments due the University will apply thereafter.

THE MASTER OF ARTS
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 panoramas 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.
2. A reading knowledge of a foreign language or approved substitute. This requirement does not apply to all degrees. See specific degree program for information.
3. Completion of a program consisting of at least twenty-four hours of integrated classroom study within the student's chosen field, an acceptable thesis of a research character for which six graduate credit hours are registered for and awarded; or at least thirty hours of integrated classroom study, a substantial research paper specifically accepted by the department to satisfy this requirement.
4. Completion of a final oral comprehensive examination, if a thesis is written, or a written examination if a thesis is not included in the program.

Specific Departmental Requirements
Within the general requirements, departments administering programs may add specific regulations. Candidates for degrees are urged to maintain close relationship with the chairmen of their particular departments.
THE MASTER OF ARTS — ENGLISH

The program for the Master of Arts degree in English is designed to develop the student’s critical and historical understanding of the English language and its literature. The program also seeks to develop the writing and research skills of students.

It is strongly recommended that all candidates take a course in The History of the English Language (En 203) or Historical Linguistics (En 503). Each candidate should work out his/her program in close consultation with the Chairman of the Department.

Students may choose one of two programs. In one program the student completes 30 semester hours of course work. At least half of the course work must be at the 500-level. Students must submit to the department a seminar paper that has been written in a 500-level course.

In the second program the student completes 24 semester hours of course work, at least half of which must be at the 500-level. The thesis, for which six hours are awarded, must be written under the guidance of a member of the English Department and must demonstrate the student’s ability to do research and/or original critical analysis.

Candidates for the M.A. in English must also pass a written comprehensive exam in English and American literature. This exam is based on a selected list of major works, which is revised every two years. The comprehensive examination is given in the spring and in mid-summer.

Students seeking admission to the graduate program in English are expected to have a 3.0 average in their undergraduate English courses.

THE MASTER OF ARTS — HISTORY

The Master’s program in history at Xavier is designed to meet the needs of two types of students. First, the research M.A., with its emphasis on historiography and technique, gives the student who plans to work toward the Ph.D. the background that he should have. The second type, the non-research M.A., is planned for the secondary or the elementary school teacher who desires to earn the Master of Arts degree. It emphasizes content courses and factual material. The non-research program will ordinarily not prevent the student from further studies, should he decide at a later date to do so.

Requirements:
1. All students must complete half their work in courses numbered 500 to 799.
2. Those who elect the degree with thesis must present twenty-four hours of class work. Six additional hours will be granted for the thesis when it is accepted.
3. Those who elect the degree without thesis must complete two to five courses in one of the following areas of concentration: The United States, Europe, Ancient (Classical), Latin America, or Asia. They must also write an extended research paper, on a subject having Departmental approval, in the area of concentration, and pass an extended written examination in that area.
4. Further instructions are available from the department chairman.

THE MASTER OF ARTS — 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 philosophy graduate offerings are limited in number and courses offered each 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 new program for a degree of Master of Arts in Humanities will occasion the giving of more courses in philosophy on the graduate level.

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 (PI 250, 260, 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.

THE MASTER OF ARTS — PSYCHOLOGY

The degree of Master of Arts in psychology is designed to prepare students for continuing their graduate studies to the doctoral level and to prepare students for employment in the areas of clinical, counseling, and industrial psychology.

Program of Studies

1. To insure comprehensiveness in their program, all candidates must include in their program each of the following courses designed, in their whole, to provide integrated coverage of the graduate field of psychology. These courses are:

   433. THEORIES OF PERSONALITY I AND II. Four or six credit hours, two or three each semester.
   501. CONTEMPORARY THEORY IN PSYCHOLOGY. Three credit hours.
   502. SEMINAR: PHILOSOPHICAL ISSUES IN PSYCHOLOGY. Three credit hours.
   505. PROFESSIONAL PROBLEMS IN PSYCHOLOGY. One credit hour.
   511. ADVANCED STATISTICS. Three credit hours.
   521. ADVANCED EXPERIMENTAL PSYCHOLOGY. Three credit hours.

2. To insure the attainment of his particular objective in graduate study in psychology, the student must include a concentration in one of the following areas of concentration:

   General-Experimental Psychology
   A minimum of thirteen credit hours selected from the following courses: Biological Basis of Animal Behavior, Learning and Motivation, Social Psychology, Psychological and Achievement Tests, Individual Tests of Intelligence, Practicum in Experimental Psychology.

   Clinical Psychology
   A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Psychopathology, Introduction to Psychiatric Treatment Methods, Individual Tests of Intelligence, Counseling Principles and Techniques, Personality Assessment Techniques I and II, Behavior Therapy, Practicum in Clinical Psychology is required.

   Counseling Psychology
   A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Developmental Psychology, Principles of Guidance, Psychological and Achievement Tests, Counseling Principles and Techniques, Individual Tests of Intelligence, Behavior Therapy, Practicum in Counseling is required.

   Industrial Psychology
   A minimum of thirteen credit hours selected from the following courses: Occupational Information, Marketing Research, Personnel Selection and Development, Learning and Motivation, Individual Tests of Intelligence, Psychology of Job Stress, Motivation and Behavior in Organizations, Psychological and Achievement Tests. Practicum in Industrial Psychology is required.

3. As a climax to his program, each student must register for Ps 699 Master's Thesis, six credit hours. He will prepare an acceptable thesis which will be defended in his final oral examination.
4. The degree of Master of Arts in psychology will be awarded only to candidates who have demonstrated a reading knowledge of a foreign language or demonstrated a proficiency in a computer language (Fortran programming) and, in final oral examination, have both successfully defended their thesis and successfully demonstrated their knowledge of the general field of psychology.
Graduate School

Admission

a. A 2.8 overall undergraduate average and a 3.0 average in all psychology courses. This average is computed by assigning quality points of 4 for each credit hour of A.
c. A minimum of 18 undergraduate credit hours in psychology which should include experimental psychology (with laboratory), introductory statistics, psychology of personality and/or abnormal psychology. Also courses in biological science and college mathematics are recommended as a preparation for graduate studies. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
d. Personality and character traits which are in agreement with ethical standards of psychology.

Procedures of Admission

Full-time students must complete the following procedures in advance of registration:
a. Submit to the Graduate Office the completed application form for admission to the Graduate School and special application form for admission to the Department of Psychology.
b. Submit transcript of previous college work.
c. Submit to the Graduate Office report of M.A.T. score or arrange with the Department of Psychology for examination.
d. At times, a personal interview may be required by the admissions committee. The student will be notified by the Department of Psychology and arrangements for the interview will be made at that time.
e. The Dean of the Graduate School will notify the applicant of official acceptance.

THE MASTER OF ARTS — THEOLOGY

The Master of Arts in theology degree is designed especially for those professionally involved in teaching and in directing programs of religious education and for those wishing to develop previous theological training.

Because no definite amount of previous study of theology is prerequisite for admission to the program, students may vary considerably in their preparation to undertake it. Ordinarily applicants should have a background in the humanities, but each applicant will be considered individually.

All applicants must complete the Miller Analogies Test prior to acceptance and obtain a score of 44 or higher.

The applicant's previous academic record will also be taken into account in the admission process.

Each student after acceptance will be assigned a faculty advisor who, in cooperation with the teachers of individual courses, will help those with little preparation to overcome their deficiencies by means of supplementary reading or the like. If, however, prerequisite course work seems to the admissions committee to be necessary in a given case, it will be assigned.

Program of Studies

The M.A. in theology will require satisfactory completion of 30 semester hours of graduate work (i.e., ordinarily ten courses), all of which must be at the graduate (500-700) level. To insure comprehensiveness in their program, all students will be required to take Method in Theology, and in addition one course each in Scripture, Liturgy, Ethics, and Systematics. The remaining five courses are free theology electives and may be chosen from the above areas as well as from History and Spirituality.

After completion of the first six hours of graduate course work, each student's ability to complete the program will be evaluated on the basis of work done in the courses taken, and the student admitted to candidacy or not. Application for candidacy is made by form.

Some students may substitute a thesis for two of their elective courses. This must be discussed and agreed to with an advisor prior to completion of the first twelve hours of graduate course work. The thesis will be read by its director and two additional readers who will then discuss it informally with its author. Students who do not write a thesis will be required to submit a research paper demonstrating their mastery of research skills.
All students will be required to pass a written comprehensive examination, covering the required areas of study, demonstrating the broad grasp of theology which the program is designed to inculcate. This examination will be taken prior to completion of their final semester of course work.

There is no foreign language requirement for the degree.

**THE MASTER OF SCIENCE — CHEMISTRY**

The M.S. in chemistry is designed to prepare students for continuing their education to the doctoral level in chemistry, for employment in the chemical industry, or for teaching positions at the secondary and junior college level.

For admission to the program, the applicant should have had undergraduate training in chemistry substantially equivalent to that of a Xavier University B.S. Chemistry major.

Undergraduate prerequisites also include mathematics through the calculus and a full year of physics. A student seriously deficient in these prerequisites will be required to make up the deficiency prior to, or concurrently with, his graduate chemistry studies.

All candidates for the degree of Master of Science must select courses from the four major areas of chemistry according to the following scheme:

**Organic Chemistry**

One course to be selected from Ch 550 Organic Stereochemistry, and Ch 590 Organic Reaction Mechanisms.

**Physical Chemistry**

Two courses to be selected from Ch 525 Thermodynamics; Ch 530 Chemical Kinetics; and Ch 535 The Chemical Bond.

**Inorganic Chemistry**

One course to be selected from Ch 610 Advanced Inorganic Chemistry I, and Ch 612 Advanced Inorganic Chemistry II.

**Analytical Chemistry**

Two courses to be selected, one from Ch 680 Instrumental Methods, and Ch 685 Synthesis and Characterization of Chemical Compounds; the other course must be a lecture course in the field of Analytical Chemistry.

These courses, all of which carry two hours of credit, generally are offered on a two-year cycle. However, the program can be entered in any semester (excluding summer). The sequence of courses is listed in a brochure which can be obtained from the Chairman of the Department of Chemistry. For descriptions of courses, see listings under the Department of Chemistry.

In addition to the twelve semester hours of chemistry obtained by selection of six of the courses indicated above, the student must earn another twelve hours of classroom credit. The courses which may be taken include: graduate courses in chemistry other than the ones selected from the above list; certain upper division undergraduate courses in chemistry; graduate mathematics and physics courses; and certain upper division mathematics and physics courses. No more than two undergraduate chemistry courses may be counted towards the degree requirements and the permission of the Chairman of the Chemistry Department must be obtained in the case of mathematics and physics courses.

In his selection of courses, the student is guided by the department chairman, or, after selection of a research project, by his research director. Among the courses, other than those listed above, which are offered regularly are the following:

320, **INTRODUCTION TO RADIOCHEMISTRY AND LABORATORY.** Two/one credit hours.

340 **TOPICS IN ORGANIC CHEMISTRY.** Two credit hours.

370 **BIOCHEMISTRY.** Three credit hours.

555 **HETEROCYCLIC ORGANIC CHEMISTRY.** Two credit hours.

570 **NEWER METHODS OF SYNTHETIC ORGANIC CHEMISTRY.** Two credit hours.

595 **ORGANOMETALLIC CHEMISTRY.** Two credit hours.
Graduate School

640 MEDICINAL CHEMISTRY. Two credit hours.

690 SPECIAL TOPICS. Two credit hours each semester.

695 SPECIAL STUDY. One credit hour each semester.

A minimum of thirty semester hours of credit is required for the degree of Master of Science in chemistry. These shall ordinarily be distributed as follows:

1. Twelve credit hours selected from the specified courses in the four areas of organic, physical, inorganic, and analytical chemistry.

2. Twelve additional credit hours selected from graduate and upper division undergraduate chemistry courses and from appropriate mathematics and physics course offerings (see above).

3. Six hours of credit obtained through satisfactory completion of a Master’s research problem (Ch 699), submission of a written thesis, and the passing of an oral examination on the contents of the thesis. (A student who can present credentials attesting to significant research experience previously obtained, upon approval by the Chairman of the Department, may be permitted to substitute six hours of additional course work for the research requirement, two hours of which must be Ch 697 Problems in Chemistry.)

4. The satisfactory completion of a written examination in a scientific modern language (chemical German, French, or Russian). Successful completion of an examination (or a University course) in computer language (FORTRAN) may be substituted for the reading proficiency examination in a scientific modern language.

5. For full-time students, enrollment in Ch 500 Graduate Chemistry Seminar, each semester of attendance. Part-time students are encouraged to attend seminar whenever their schedules permit.

All degree students must present at the time of registration a schedule of courses to be taken which has been approved by the Chairman of the Department of Chemistry or by the student’s research director.

Non-degree students are encouraged to consult with the Chairman prior to registration to determine if they possess the proper prerequisites for the course(s) of interest.

Part-time students, especially those who have not chosen a research topic, are urged to consult with the Chairman to learn how curriculum modifications have affected their program of studies.

THE MASTER OF SCIENCE — CORRECTIONS

The Master of Science in corrections 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.

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 the crime and delinquency complex in contemporary society, and the current philosophy, methodology, and techniques of corrections, by satisfactorily completing a program of graduate work designed to impart this knowledge, establish desirable attitudes, and sharpen the necessary skills.

Students electing graduate work in corrections generally must present evidence of an undergraduate degree from an accredited college or university acceptable to the Admissions Committee.

A minimum of thirty hours is required for the degree of Master of Science in corrections. These will be distributed as follows:

501 FOUNDATIONS OF CORRECTIONS. Three credit hours.

503 INSTITUTIONAL CORRECTIONS. Three credit hours.

505 NON-INSTITUTIONAL CORRECTIONS. Three credit hours.

510 LEGAL ASPECTS OF CORRECTIONS. Two credit hours.

520 SOCIOLOGY OF CRIME AND DELINQUENCY. Three credit hours OR

566 CRIME AND PERSONALITY. Three credit hours.

540 CORRECTIONAL ADMINISTRATION. Two credit hours.

576 PSYCHOLOGY OF DELINQUENCY. Two credit hours.
Graduate School

580 INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom). Two credit hours.

590 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:

Cr 518 SEMINAR: BLACK PERSPECTIVES IN CORRECTIONS. Two credit hours.
Cr 521 JUVENILE DELINQUENCY AND THE JUVENILE COURT. Two credit hours.
Cr 533 COUNSELING IN CORRECTIONS. Two credit hours.
Cr 534 RATIONAL SELF COUNSELING. Two credit hours.
Cr 537 ADVANCED CORRECTIONAL COUNSELING. Two credit hours.
Cr 541 DIVERSION AND THE CRIMINAL JUSTICE SYSTEM. Two credit hours.
Cr 542 ROLE OF CORRECTIONAL ARCHITECTURE. Two credit hours.
Cr 543 AMERICAN PRISONS TODAY. Two credit hours.
Cr 544 CRIMES AGAINST THE ELDERLY. Two credit hours.
Cr 550 ALCOHOL AND CRIMINALITY. Two credit hours.
Cr 581 CORRECTIONAL/SOCIAL RESEARCH. Three credit hours.
Ed 272 GUIDING THE EMOTIONALLY DISTURBED CHILD. Two credit hours.
Ed 273 EDUCATING EXCEPTIONAL CHILDREN. Two credit hours.
Ed 507 EDUCATIONAL RESEARCH. Three credit hours.
Ed 510 STATISTICAL TECHNIQUES. Three credit hours.
Ed 579 PSYCHOLOGICAL AND ACHIEVEMENT TESTS. Two credit hours.
Ps 232 CHILD PSYCHOLOGY. Two or three credit hours.
Ps 233 ADOLESCENT PSYCHOLOGY. Two or three credit hours.
Ps 261 SOCIAL PSYCHOLOGY. Two credit hours.
Ps 277 ABNORMAL PSYCHOLOGY. Two or three credit hours.
Ps 433 THEORY OF PERSONALITY I. Two or three credit hours.
Ps 434 THEORY OF PERSONALITY II. Two or three credit hours.
Ps 533 COUNSELING PRINCIPLES AND TECHNIQUES. Two credit hours.
Ps 647 CLINICAL STUDIES: THE EMOTIONALLY DISTURBED CHILD. Two credit hours.
Sc 222 PRINCIPLES OF SOCIAL CASE WORK. Three credit hours.

The Master of Science in corrections will be awarded only to candidates who pass an extensive written examination on the general field of corrections covered by the required courses.

Internship

The Graduate School will arrange for students completing the M.S. in corrections to take specialized training in facilities located near their homes. A minimum of three hundred hours of on-the-job training is necessary to fulfill degree requirements.

The student must arrange for an internship through the Director of the corrections program.

An Internship Fee of $125.00 to cover expenses in the administration of the internship is charged each student registering for Cr 590: Internship in Corrections.

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THE MASTER OF EDUCATION

The Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators actually engaged in school work. It has one basic aim: stimulating better teaching wherever the influence of the successful candidate may extend, whether it be in an individual classroom, an entire school or a whole school system.

Accordingly, this degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within the particular sphere of his influence by satisfactorily completing a program of graduate work designed to give 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 insure the student's attaining a comprehensive knowledge of professional theory and practice in the principal areas of the field; a detailed knowledge of at least one major area of specialization—for high school teachers this area may be an appropriate academic field; and capability in the skills and knowledge necessary for intelligent comprehension and use of educational research.

To insure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs each of four general survey courses (or alternate courses as indicated) designed, in their whole, to provide integrated coverage of the broad field of education. These courses are:

501 PHILOSOPHY OF EDUCATION. Three credit hours. (Montessori students take Ed 641 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH in lieu of 501.)

503 ADVANCED EDUCATIONAL PSYCHOLOGY. Three credit hours. (Montessori students may substitute Ed/Ps 646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD for Ed 503 as appropriate.)

505 EDUCATIONAL ADMINISTRATION. Three credit hours. (Students in guidance must take Ed 537 ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES (2) in lieu of 505.)

507 EDUCATIONAL RESEARCH. Three (two/one) credit hours.

To insure their mastery of a particular area of education, candidates must include in their programs a concentration of at least twelve credit hours in one of the following areas of concentration:

Administration, guidance, elementary education, secondary education, physical education, the learning disabled child, Montessori education, reading specialist, instructional service specialist, educational media specialist, personnel training and development, school social work, biology, business, chemistry, classics, communication arts, English, history-political science, mathematics, French, German, Spanish, philosophy, psychology, theology, and music.

Those interested in the M.Ed. program may obtain brochures covering specifics of concentrations from the Graduate School office. Separate folders are available for concentrations in Montessori education, reading specialist, learning and behavior disorders, 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

*Certain concentrations may require more than 12 semester hours, particularly where state certification requirements are involved.
over the four general survey courses in education if they have concentrated in a subject matter field or in elementary or secondary education. Students in guidance or educational media may apply for a waiver of comprehensive examination and replace it with an extended practicum if approved by the Director of the program.

Should the student fail the comprehensive examination he may repeat it only once.

Note: The University is not obliged to recommend certification of any type on the basis of the completion of a Master of Education Degree or specific course work in education. Students must also meet leadership, communication, and character requirements of the State Department of Education beyond academic requirements for each specific certificate.

THE MASTER OF BUSINESS ADMINISTRATION

The degree of Master of Business Administration is a professional degree designed to meet the needs of persons in industry for training which will ready them for increasing executive responsibilities.

Accordingly, this degree is awarded to the candidate who has demonstrated capacity for leadership in the field of business by satisfactorily completing a graduate program designed to give him the following characteristics:

1. Broad knowledge of the principles and techniques of business administration.
2. Specific knowledge of one of the major phases of business administration.
3. Essential understandings and skills necessary for intelligent consumption of research in the fields of business.

Students meeting grade requirements may be admitted to the M.B.A. program on one of two bases:

1. Undergraduate degree in business administration which included the prerequisite courses (or equivalents) listed below.

2. Undergraduate non-business degree. Business administration course deficiencies may be removed by an extended graduate program, including the following one semester prerequisite courses: BA 501 Basic Economics (three credit hours); BA 502 Introduction to Quantitative Methods (two credit hours); BA 503 Financial Accounting (four credit hours); BA 505 Basic Marketing (two credit hours); BA 506 Basic Statistics (two credit hours); BA 507 Corporate Finance (two credit hours) or their equivalents, as appropriate. Prerequisite courses are generally open only to graduate students with undergraduate deficiencies.

All M.B.A. degree applicants must take the Graduate Management Admission Test. Applicants should arrange to take the test prior to admission. Test application forms may be obtained from Xavier’s M.B.A. Office or by writing directly to the Educational Testing Service, Box 966, Princeton, New Jersey 08540.

To insure comprehensiveness in their programs for the degree of Master of Business Administration, all candidates must include in their programs each of six general survey courses designed, in their whole, to provide integrated coverage of the broad business field. These courses are:

511 ECONOMIC ENVIRONMENT. Three credit hours.
512 QUANTITATIVE BUSINESS METHODS. Three credit hours.
513 MANAGERIAL ACCOUNTING. Three credit hours.
514 MANAGEMENT OF ORGANIZATIONS. Three credit hours.
515 MARKETING STRATEGY. Three credit hours.
516 PROBLEMS IN BUSINESS FINANCE. Three credit hours.
Graduate School

To insure their mastery of a particular area of business administration, candidates will ordinarily include in their programs a concentration of at least nine credit hours in one of the following areas of concentration:

- Accounting
- Finance
- Personnel
- Management
- Marketing
- Management Information Systems

Advanced Business Economics
Quantitative Methods
Industrial Management
Multinational Business
Taxation

As a capstone to his program, the candidate must include the conference-type seminar, BA 699. This will assist him in marshalling his knowledge of the business field in the solution of specific problems. A student must have at least twenty-one graduate hours including all of the core courses before taking this course.

A minimum of thirty-three graduate hours is required for the M.B.A. These shall ordinarily be distributed as follows:

1. Eighteen hours in the six core areas.
2. At least nine hours in a functional area of concentration.
3. Three hours in Seminar: Business Administration Problems.

Courses below the 500-level may not be used in the Master of Business Administration program toward the degree without special approval from the Dean of the School of Business Administration.

MASTER OF HOSPITAL AND HEALTH ADMINISTRATION

The degree of Master of Hospital Administration is awarded the candidate who has followed a program of studies designed to give him a background in three areas: first, in the principles and concepts of general organization and management theory; second, in the principles and concepts particularly applicable to the management of hospitals and other health care institutions; and third, in the social, political and economic determinants of the health care system.

Students may be considered for admission to graduate degree work in Hospital and Health 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 hours required for the degree.

To accomplish the above objectives, the candidate must satisfactorily complete the following:

Didactic Year (September through August; 42 cr. hrs. required)

GENERAL MANAGEMENT CORE (required)

- Management
  - HA 510 Hospital Organizational Theory .................................. 3 cr. hrs.
  - HA 540 Psychology of Executive Behavior .................................. 3 cr. hrs.
  - HA 550 Hospital Legal Aspects ............................................. 3 cr. hrs.
  - HA 560 Seminar—Health Care Organization .................................. 3 cr. hrs.

Health Systems

- HA 520 Medical Care Organization ............................................ 3 cr. hrs.
- HA 530 Health Information Systems ........................................... 3 cr. hrs.
HA 570 Current Trends in Medicine ........................................... 3 cr. hrs.

SURVEY CORE (required)
HA 610 Quantitative Techniques for Administrators ...................... 3 cr. hrs.
HA 620 Hospital Financial Management ..................................... 3 cr. hrs.
HA 650 Health Care Planning and Development ............................ 3 cr. hrs.
HA 660 Hospital Human Resources Management ............................ 3 cr. hrs.

ELECTIVES (required)
Nine hours of elective work will be taken in any of the following areas:
Ambulatory Health Care Administration
Financial Management
Gerontological Administration
Human Resources
Mental Health Care Administration
Health Care Planning
Quantitative Techniques
Rural Health Care Delivery

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.

All candidates must successfully pass a written comprehensive examination on the four survey areas.

Administrative Residency Year (12 cr. hrs. required)
HA 698 Administrative Residency (12 months) ............................ 9 cr. hrs.
HA 699 Master’s Thesis ....................................................... 3 cr. hrs.

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.

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 the Program. Modifications will be made only when the student evidences equivalent experience prior to enrolling in the degree program. A student will ordinarily receive compensation from the hospital in which 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 requirements for the degree. The student will register for three credit hours and pay the normal tuition charge.

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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LOUISE LANG, M.T. (ASCP), Educational Coordinator, (513) 868-2000, Ex. 276

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