

1986

1986-1988 Xavier University College of Arts and Sciences, College of Business Administration, College of Professional Studies, Division of Continuing Education Course Catalog

Xavier University, Cincinnati, OH

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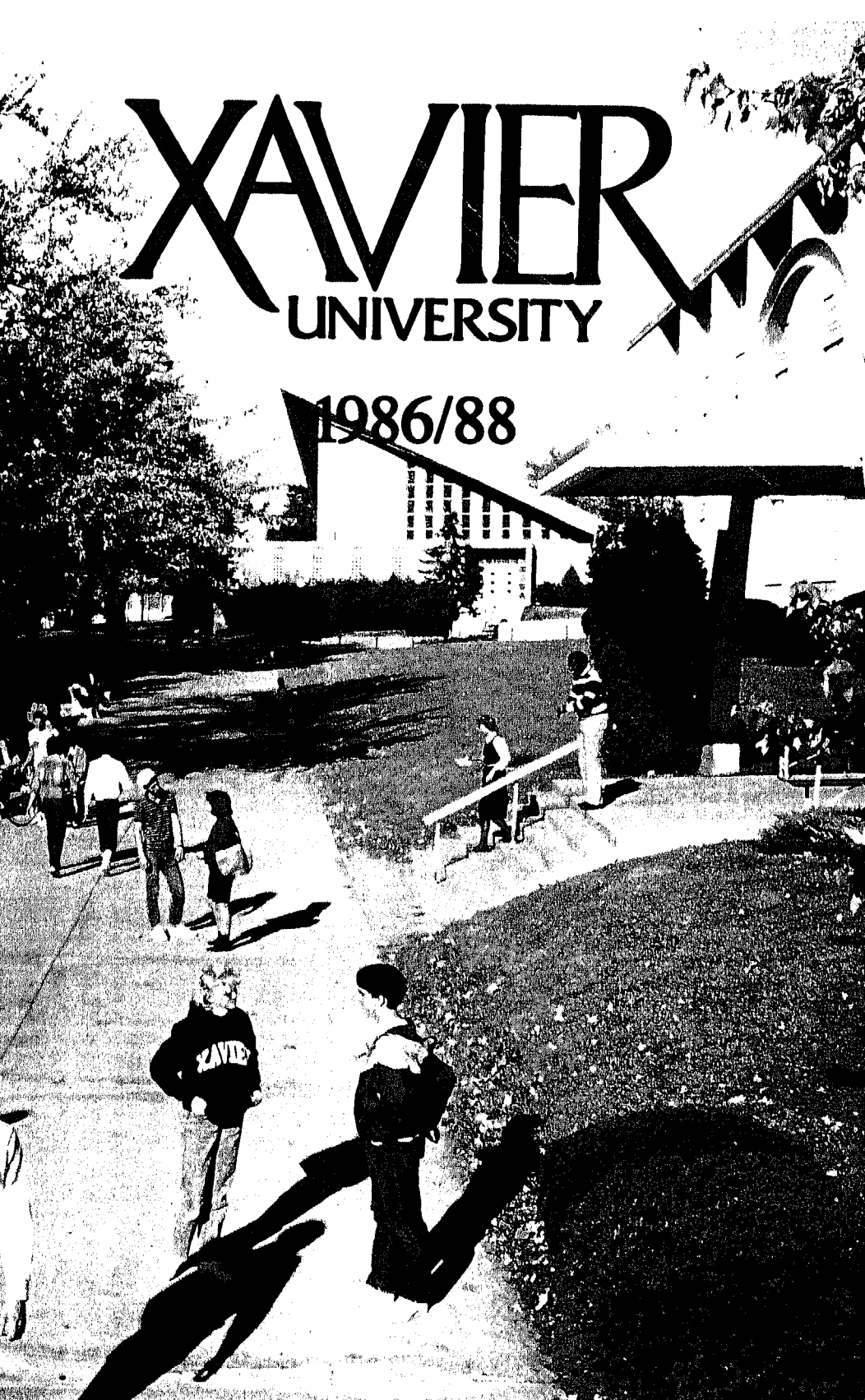
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XAVIER

UNIVERSITY

1986/88



Suggestions for Obtaining Information

Requests for information should be directed to the office indicated,
Xavier University, 3800 Victory Parkway, Cincinnati, Ohio 45207-1096.

Telephone: (513) 745-3000

Admission blanks and entrance requirements:

Admissions

Alumni affairs

Alumni Relations

Bulletins and catalogues (undergraduate):

Admissions

Bulletins and catalogues (graduate):

Graduate School

Division of Continuing Education:

Division of Continuing Education

Counseling Services:

Counseling Center

Financial Assistance:

Financial Aid

For part-time and after graduation placement:

Career Planning and Placement

Graduate study:

Graduate Programs

Honors Course:

Admissions

Housing on campus:

Residence Life

Housing on campus (new students):

Admissions

Refunds:

Bursar

Reservation fees:

Admissions

Schedule of campus events:

Information Center

Scholars' Program:

Admissions

Student health:

Student Health Service

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Summer Sessions

Teachers' certification requirements:

Department of Education

Transcripts and certificates of honorable dismissal:

Registrar

Tuition and payment of bills:

Bursar

Veterans' education:

Registrar

Xavier University

Coeducational

Cincinnati's Jesuit University



Catalogue 1986-1988

College of Arts and Sciences
College of Business Administration
College of Professional Studies
Division of Continuing Education

3800 Victory Pkwy, Cincinnati, OHIO (513) 745-3000

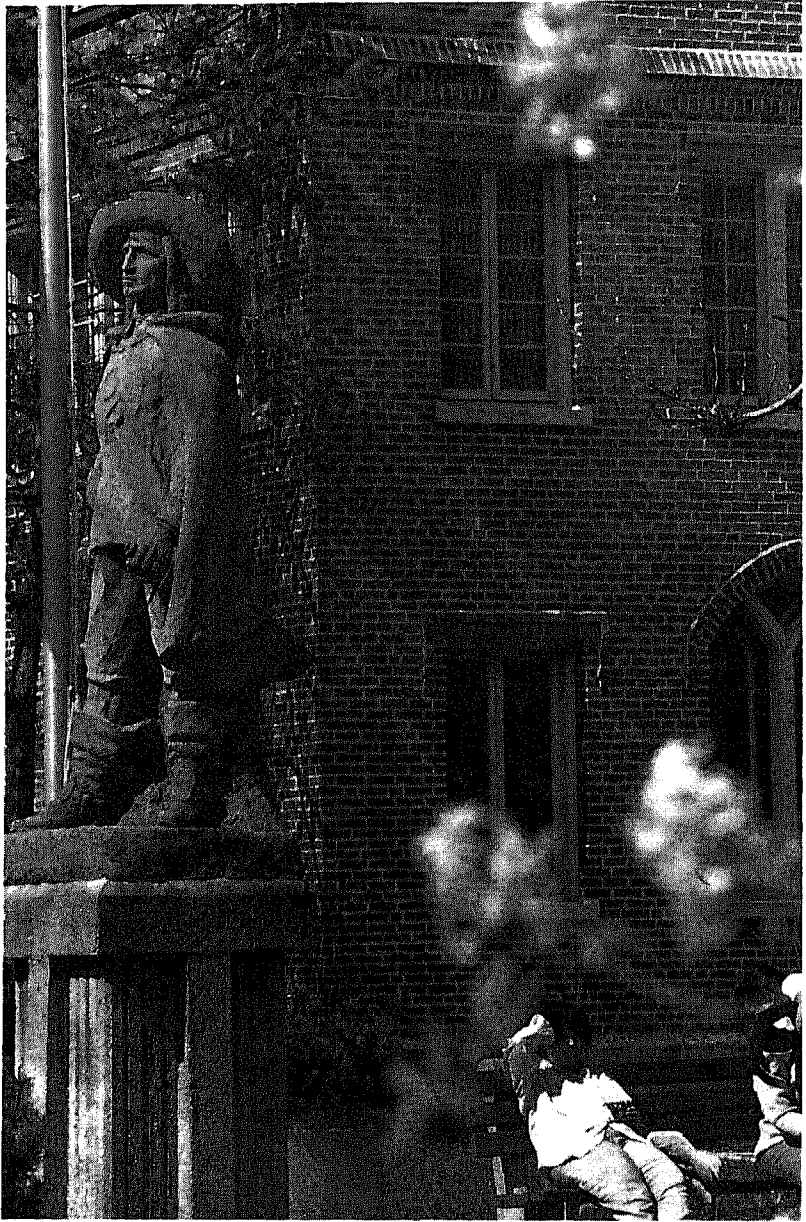


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UNIVERSITY CALENDAR 1986-1987

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

Fall Semester, 1986

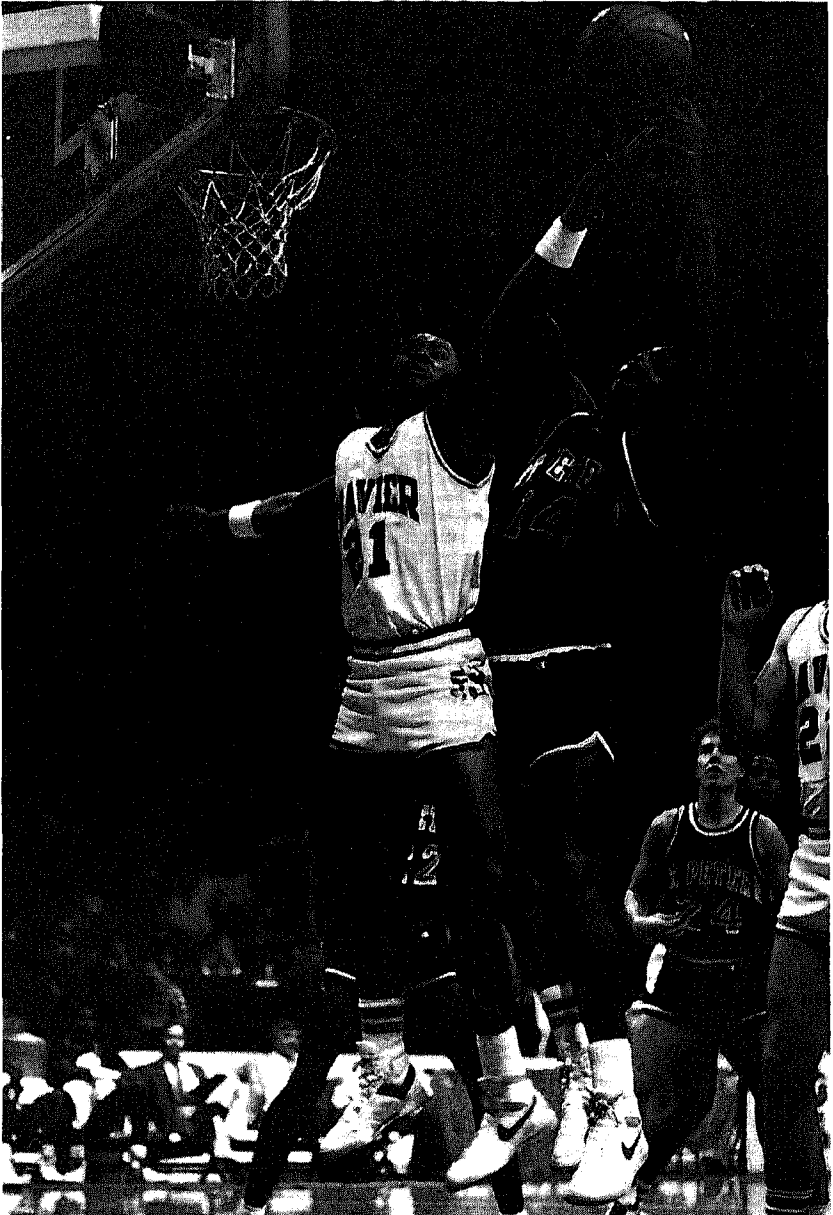
Aug. 18, Monday through Aug. 22, Friday	Mail registration, Graduate Programs
Aug. 28, Thursday	Registration, Graduate Programs
Aug. 29, Friday	Registration, all divisions
Aug. 30, Saturday	Registration, Division of Continuing Education and Graduate Programs
Sept. 2, Tuesday	Registration, all divisions
Sept. 3, Wednesday	Classes begin, all divisions
Sept. 11, Thursday	Last day for late registration or changes in registration for undergraduate students except for the Division of Continuing Education
Oct. 13, Monday	Autumn holiday, day divisions. All classes scheduled at 4:00 pm or after will meet.
Oct. 24, Friday	Final deadline for undergraduate and graduate students to file application for December graduation.
Oct. 27, Monday	Final deadline for reporting midsemester grades for all undergraduate students.
Nov. 17, Monday	Final date for withdrawal without failure from full-term courses, undergraduate students only.
Nov. 26, Wednesday	Thanksgiving Vacation begins - holiday all divisions.
Dec. 1, Monday	Classes resume, all divisions, 8:30 am.
Dec. 1, Monday through Dec. 5, Friday	Preregistration, undergraduate day colleges. Early registration, Division of Continuing Education.
Dec. 1, Monday through Dec. 6, Saturday	Preregistration, Graduate Programs
Dec. 6, Saturday	Final date for all undergraduate and graduate students to file application for May graduation.
Dec. 6, Saturday	Senior Comprehensive Examinations, undergraduate students. M.Ed. Comprehensive Examinations, 1:30-4:30 pm.
Dec. 14, Sunday through Dec. 20, Saturday	Semester Examinations, all divisions
Dec. 20, Saturday	End of Fall Semester after final examination, all divisions.

Spring Semester, 1987

Jan. 2, Friday through Jan. 6, Tuesday	Mail Registration, Graduate Programs
Jan. 9, Friday and Jan. 10, Saturday	Registration, Division of Continuing Education and Graduate Programs
Jan. 12, Monday and Jan. 13, Tuesday	Registration, all divisions
Jan. 14, Wednesday	Instruction begins for all classes, graduate and undergraduate, which start before 4:00 pm. All classes, graduate and undergraduate, scheduled to start at 4:00 pm or after will not meet. Registration, Division of Continuing Education and Graduate Programs
Jan. 15, Thursday	Instruction begins for all classes, graduate and undergraduate, scheduled to start at 4:00 pm or after.
Jan. 19, Monday	Dr. Martin Luther King Day, holiday until 4:00 pm. All classes, graduate and undergraduate, scheduled to start at 4:00 pm or after will meet.
Jan. 23, Friday	Last day for late registration or changes in registration for undergraduate students, except for Division of Continuing Education.
Mar. 8, Monday through Mar. 14, Saturday	Spring Vacation, all divisions.
Mar. 9, Monday	Final deadline for reporting midsemester grades for all undergraduate students.
Mar. 15, Sunday	All Sunday classes meet.
Mar. 25, Wednesday through Mar. 31, Tuesday	Preregistration, undergraduate day students and all graduate students. Early registration, Division of Continuing Education.
Apr. 6, Monday	Final date for withdrawal without failure from full-term courses, undergraduate colleges only.
Apr. 13, Monday	Honors Convocation, 1:30 pm.
Apr. 16, Thursday	Easter Vacation begins, holiday all divisions.
Apr. 20, Monday	Holiday, undergraduate divisions. Graduate level courses resume at 1:30 pm.
Apr. 21, Tuesday	Classes resume, undergraduate divisions, 8:30 am.
Apr. 25, Saturday	Senior Comprehensive Examinations, undergraduate students. M.Ed. Comprehensive Examination, 1:30-4:30 pm.
May 3, Sunday through May 9, Saturday	Semester Examinations, all divisions
May 9, Saturday	End of Spring Semester after last examination, all divisions
May 16, Saturday	Commencement Exercises, all undergraduate students.
May 18, Monday	Commencement Exercises, Graduate Programs.

Summer Sessions, 1987

Summer classes meet from May through late August. See Summer Sessions brochure for details. You may call the Summer Sessions Office (513 745-3601) after January 1, 1987, for a brochure.



UNIVERSITY CALENDAR, 1987-1988

Fall Semester, 1987

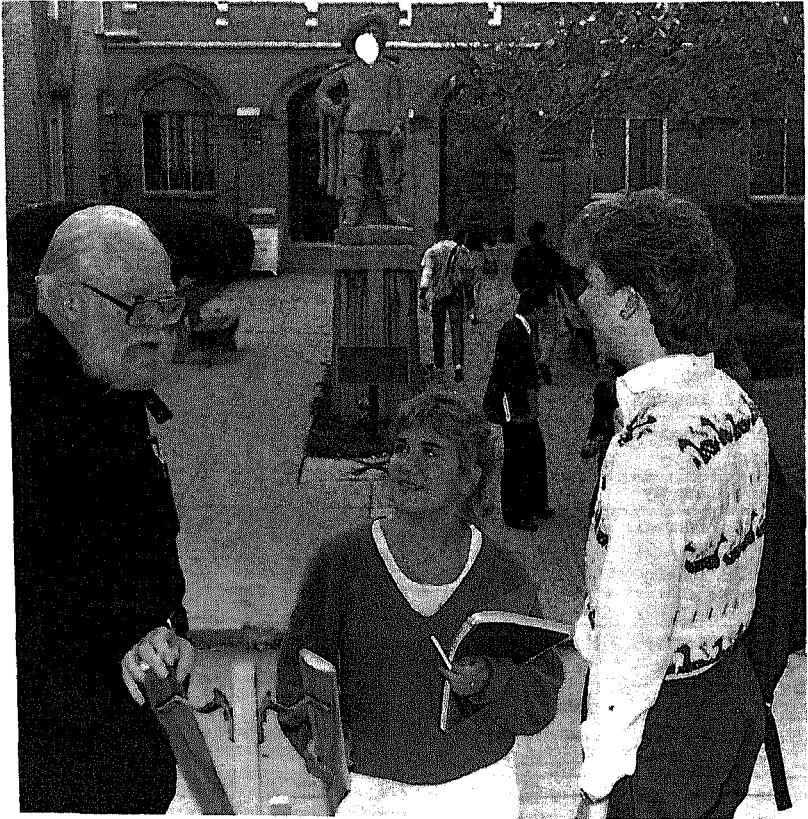
Aug. 17, Monday through Aug. 21, Friday	Mail Registration, Graduate Programs.
Aug. 27, Thursday	Registration, Graduate Programs.
Aug. 28, Friday and Aug. 29, Saturday	Registration, Division of Continuing Education and Graduate Programs.
Aug. 31, Monday and Sept. 1, Tuesday	Registration, all divisions.
Sept. 2, Wednesday	Classes begin, all divisions.
Sept. 7, Monday	Labor Day, holiday, all divisions
Sept. 10, Thursday	Last day for late registration or changes in registration for undergraduate students except for the Division of Continuing Education.
Oct. 16, Friday	Autumn Holiday, day divisions. Division of Continuing Education and Graduate Programs classes meet, 4:00 pm and after
Oct. 23, Friday	Final deadline for undergraduate and graduate students to file application for December graduation.
Oct. 26, Monday	Final deadline for reporting midsemester grades for undergraduate students.
Nov. 16, Monday	Final date for withdrawal without failure from full-term courses, undergraduate students only.
Nov. 25, Wednesday	Thanksgiving Vacation begins—holiday all divisions.
Nov. 30, Monday	Classes resume, all divisions, 8:30 am.
Nov. 30, Monday through Dec. 4, Friday	Preregistration, undergraduate day students. Early registration, Division of Continuing Education.
Nov. 30, Monday through Dec. 5, Saturday	Preregistration, Graduate Programs.
Dec. 5, Saturday	Senior Comprehensive Examinations, undergraduate students. M.Ed. Comprehensive Examinations, 1:30-4:30 pm.
Dec. 5, Saturday	Final date for all undergraduate and graduate students to file application for May graduation
Dec. 13, Sunday through Dec. 19, Saturday	Semester Examinations, all divisions.
Dec. 19, Saturday	End of fall semester after last examination, all divisions.

Spring Semester, 1988

Dec. 31, Thursday through Jan. 5, Tuesday	Mail registration, Graduate Programs
Jan. 8, Friday and Jan. 9, Saturday	Registration, Division of Continuing Education and Graduate Programs
Jan. 11, Monday and Jan 12, Tuesday	Registration, all divisions
Jan 13, Wednesday	Instruction begins for all classes, graduate and undergraduate, which start before 4:00 pm. All classes, graduate and undergraduate, scheduled to start at 4:00 pm or after will not meet. Registration, Division of Continuing Education and Graduate Programs
Jan 14, Thursday	Instruction begins for all classes, graduate and undergraduate, scheduled to start at 4:00 pm or after.
Jan. 18, Monday	Dr. Martin Luther King Day, holiday until 4:00 pm. All classes, graduate and undergraduate, scheduled to start at 4:00 pm or after will meet.
Jan 22, Friday	Last day for late registration or changes in registration for undergraduate students except for the Division of Continuing Education
Mar. 6, Sunday through Mar. 12, Saturday	Spring Vacation, all divisions.
Mar. 7, Monday	Final deadline for midsemester grades for all undergraduate students
Mar. 13, Sunday	All Sunday classes meet.
Mar. 23, Wednesday through Mar. 29, Tuesday	Preregistration, undergraduate day students and all graduate students. Early registration, Division of Continuing Education.
Mar. 31, Thursday	Easter Vacation begins, holiday all divisions.
Apr. 4, Monday	Holiday, undergraduate divisions. Graduate level classes resume, 1:30 pm.
Apr. 5, Tuesday	Classes resume, undergraduate divisions, 8:30 am.
Apr. 5, Tuesday	Final date for withdrawal without failure from full-term courses, undergraduate students
Apr. 16, Saturday	Senior Comprehensive Examinations, undergraduate colleges. M.Ed. Comprehensive Examinations, 1:30-4:30 pm.
Apr. 18, Monday	Honors Convocation, 1:30 pm.
May 1, Sunday through May 7, Saturday	Semester Examinations, all divisions
May 7, Saturday	End of Spring Semester after last examination, all divisions
May 14, Saturday	Commencement Exercises, all undergraduate students.
May 16, Monday	Commencement Exercises, Graduate Programs.

Summer Sessions, 1988

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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 the College of Business Administration, established in 1961, which, together with the other undergraduate colleges—the College of Arts and Sciences, and the College of Professional Studies—provides students with a broad-based learning experience. In 1841 Xavier offered its first night courses, beginning a tradition of serving the unique needs and schedules of professionals in the Cincinnati community, a tradition it proudly continues today.

St. Xavier College moved to its present location in the geographic center of the city in 1919, when its growth and development called for new and larger facilities. To reflect that growth and development, the name was changed to Xavier University in 1930. Since that time, the University has become coeducational (1969) and has implemented a host of new academic programs, facilities, community projects and student services.

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

Xavier University: GOALS AND PURPOSES

As a Catholic university in the Jesuit tradition, Xavier recognizes and accepts its corporate mission to represent those principles, ideals, and convictions on which the integral Judaeo-Christian and American heritage is founded. The University is governed by the basic assumption that commitment to these values is consonant with human freedom, that religious insights are complementary to the intellectual life, that a continuing synthesis between the Christian perspective and all forms of human knowledge is conducive to a more perfect wisdom and understanding. Xavier professes, therefore, a special interest in theological and philosophical reflection and a special concern for the interaction of ethical values with all forms of knowledge. The University is committed to a continuing exploration of those traditions which are Catholic and Christian and to an active interest in and investigation of the many other traditions which have enlightened human minds and enriched human history.

Confident in this corporate vision, and convinced of these fundamental assumptions, Xavier acknowledges the education of students as its primary institutional responsibility. The general aim of all the University's efforts is the development of each student as a complete person totally equipped for a mature, thoughtful, and courageous response to human life. This implies a high level of intellectual and cultural development which can only be achieved through academic programs of the highest quality, and through a faculty dedicated to excellence in teaching and nurtured by scholarship and research. It also implies formation of character and the adoption of sound principles which emphasize the individual's responsibility to society at large and to the more immediate community.

The University

Xavier considers itself a learning community dedicated to the pursuit of knowledge, to the orderly discussion of issues confronting society, and to the conception of a world that is at once more fully human and more fully divine. Hence, the University is determined to provide the most competent available instruction in all the major disciplines and to foster in all members of the Xavier community those personal qualities needed for a rich and meaningful life.

The University also recognizes its obligation to promote research and productive scholarship on the part of faculty members. Hence, every effort will be made to assist faculty members, whenever appropriate and feasible, to engage in research and scholarly activity related to professional advancement and increased academic competence.

Finally, Xavier accepts its obligation to serve its various communities by encouraging its faculty and staff members, wherever appropriate, to become involved in community enterprises and to assist in meeting community needs. In meeting this obligation, the University aims to foster that spirit of civic responsibility and community involvement implied by its general purposes and goals.

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 arts education. This type of education, which has always been the core of the Jesuit university, is called liberal because it liberates the human mind from a consideration of solely immediate concerns. It frees the individual to explore the amazingly diverse achievements of man while developing and expanding his own vast potential as a human person.

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

Graduate programs are offered for specialized studies in a number of disciplines. Students may earn MA degrees in English, History, Humanities, Psychology, and Theology.

College of Professional Studies

Xavier's College of Professional Studies was formed in 1984, resulting from an academic reorganization of the University. Long-established programs in Criminal Justice, Education, Hospital and Health Administration, Nursing, Public Administration, and Social Work became the integral departments of the college. The college provides degree programs at both the graduate and undergraduate levels. Undergraduate degree programs are offered in Criminal Justice, Education, Nursing (BSN for Registered Nurses), and Social Work. Masters' degree programs are available in Criminal Justice, Education, and Hospital and Health Administration.

The undergraduate degrees include a strong traditional core curriculum of Jesuit liberal education. The degree programs in Hospital and Health Administration, Nursing and Social Work are accredited programs. The Education certification programs are State of Ohio approved. A pre-mortuary science program is also available leading to matriculation at the Cincinnati College of Mortuary Science.

The objective of the college is the education of knowledgeable, skilled and value/ethical oriented professionals in the various preparation programs of the college. The college is also strongly committed to community services.

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 offers degrees at the Associate, Bachelor and Master levels.

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 person and a 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 the individual may be more qualified to accept a position of responsibility and leadership in the business community.

Division of Continuing Education

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

Working through the various colleges of the University, the Division offers programs in liberal arts, business, technical, and vocational areas which will lead to a degree. Special mention is made of the Bachelor of General Studies degree program offered in cooperation with the College of Professional Studies. The BGS is a nonmajor degree program for the mature student of multi-interests. It is limited to individuals 22 years of age or older.

Again, through the various colleges of the University, the Division of Continuing Education offers regular classes which lead to two-year associate degrees in business, arts and sciences and professional studies. The student should consult the specialized publication of the Division of Continuing Education on associate degree programs. Special note is made about the Associate Degree Program in Radiologic Technology offered through the Division of Continuing Education in conjunction with the College of Arts and Sciences and in cooperation with various Greater Cincinnati hospitals. This is a full-time day program.

Graduate Programs

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

Consortium Opportunities

Xavier is a member of a consortium of institutions of higher education: the Greater Cincinnati Consortium (11 area schools, plus Xavier, in southwestern Ohio and northern Kentucky). This membership offers new opportunities for curriculum enrichment through cross-registration for courses not generally available in the home institution. The program is available to all full-time students.

Accreditation

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

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

The University

Institutional Memberships

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

Buildings and Facilities

Main Campus

Location

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

Alter Hall

Alter Hall houses classrooms for a variety of disciplines. In addition, administrative offices for the Office of the Academic Vice President, the College of Arts and Sciences, the Division of Continuing Education, Graduate Programs, and the Registrar are located here.

Bellarmino Chapel

(see campus ministry)

University Center

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

McDonald Memorial Library

The McDonald Memorial Library provides collections and services to support the University's graduate and undergraduate programs. The collection numbers over 250,000 volumes of books and journals, over 300,000 pieces of microform, and approximately 1,500 current journal subscriptions. A browsing collection on the first floor contains current books of general interest. The library's Special Collections which includes rare books and manuscripts is located in McDonald Library.

Reference librarians are available to assist students with their research most hours the library is open. Computerized literature searching and interlibrary loan services allow students access to

materials not owned by Xavier. Xavier students may use the facilities and services of area libraries participating in the Greater Cincinnati Library Consortium (GCLC).

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

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

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

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

College of Business Administration Building

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

Fieldhouse

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

Residence Halls

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

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

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

Brockman Hall

Brockman Hall also houses the Xavier Television studios and classrooms.

Laboratories

The Department of Biology, occupying Albers Hall, is well-equipped for teaching undergraduate students the biological sciences. General laboratories are outfitted with compound and stereoscopic microscopes, ample slides and specimens, and fresh- and sea-water aquaria. Other laboratories are maintained for study in anatomy and development, behavior and physiology, plant biology, genetics, bacteriology, and ecology. The Department has assembled abundant visual aids — models, vertebrate and invertebrate museum specimens, a variety of projectors, and its own library of motion pictures and kodachrome slides. Modern laboratory instrumentation is used in appropriate courses and includes oscilloscopes, stimulators, electroencephalographs, polygraphs, activity recorders, environmental growth chambers, spectrophotometers and computers.

The Department of Physics, in Alumni Hall, 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, an X-ray laboratory and a complete machine shop.

The Department of Chemistry is located in the Logan Building. Facilities include 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 laboratories. In addition five small rooms house special equipment which is used by more than one course. The Department has among its equipment a proton NMR spectrometer and a C-13 NMR spectrometer, a mass spectrometer, polarographic apparatus, an emission spectrograph, four IR spectro-

The University

photometers, four UV-Visible spectrophotometers, six gas chromatographs, and a high pressure liquid chromatograph to give students experience with a large number of different laboratory techniques. Three computer terminals are also available within the Logan Building.

The Psychology Department laboratory in Elet Hall is equipped to do 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 Elet Hall. Rotary and programmable calculators and an assistant are available to aid students from throughout the University in performing mathematical and statistical computations.

Communication Arts Facilities

WVXU-FM is a 23,000-watt National Public Radio station operating 365 days a year, 24 hours a day. WVXU is unique in several ways: it has one of the farthest-reaching FM signals in Cincinnati, covering over 70 miles in all directions; WVXU is one of a handful of NPR stations which is staffed by only five full-time people and over 40 student volunteers; of all NPR stations, WVXU has one of the largest audiences in the nation, serving over 83,000 listeners weekly. One measure of the quality of WVXU is in its membership; over 9,000 people annually contribute over \$25 each toward the support of the station. WVXU now occupies spacious quarters in its own building on campus.

The Television Center, located in Brockman Hall, is also student operated, and is directed by three full-time staff members. The Television Center serves the University, the Cincinnati community and the national market by producing programs for cable, public television, home video and the educational market.

A journalism lab in Brockman Hall provides typing facilities for print and broadcast journalism classes.

A fully equipped photo lab and darkroom are available to students in photography and film classes. Still cameras and movie cameras are also available for class work.

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 being services meeting University needs in the areas of education, research and administration.

The University has two computer systems to serve Xavier students, faculty, and administration. A Director for Academic Computing, a full-time Assistant to the Director, and several student consultants are available to help users. No charges are made for these services.

Batch mode computing is handled by an IBM 4341 with 4 megabytes of memory. This machine, dedicated to administrative use, is at the heart of a distributed processing network containing seven subsystems. These computers support a broad range of functions.

Time-sharing computing is accomplished with a DEC VAX-11/785 with 8 megabytes of memory. This computer, used exclusively for instructional and academic research purposes, supports the BASIC, COBOL, FORTRAN, PASCAL, C, and VAX-assembler languages. One hundred twelve interactive lines are available to students and faculty, with more than 50 of these lines accessible in three staffed Academic Computing Laboratories (Schmidt 302, 303, and CBA 22), open a total of more than 90 hours each week. Access is also available through terminals in the McDonald and Brennan Libraries and the Lodge Learning Laboratory, as well as through some departments.

Peripheral devices include video display terminals, dot-matrix and letter-quality printers, printing terminals, plotters, and color graphics terminals. There are also microcomputer laboratories (Schmidt 301 and CBA 21) equipped with a representative selection of machines. File transfer between the VAX and Apple, IBM and DEC microcomputers is possible. An extensive library of programs, including statistical packages and word processing, is maintained for general use. Workshops in the use of software packages are regularly offered.

Lodge Learning Laboratory

Lodge Learning Laboratory, located on the second floor of Schmidt Hall, is the educational resource center of the Xavier University Libraries. In support of teacher preparation and instruction, Lodge houses the curriculum library, children's literature collection, multi-media instructional materials and modern language audiocassettes. The staff at Lodge Learning Lab is available to assist students in producing instructional materials and to provide instruction in the operation of classroom equipment.

Psychological Services Center

The Psychological Services Center, located in Sycamore House, provides a wide range of psychological and career-related services for students, faculty and staff of Xavier University. Since services are provided by highly trained, doctoral-level professionals, the Center is equipped to handle a wide range of concerns. Individualized counseling and therapy as well as evaluations are confidentially provided in such areas as personal growth, interpersonal relationships, depression and loneliness, stress and anxiety, family issues, drug and alcohol problems, eating and weight problems, test anxiety, and womens issues. The Center is also equipped to handle a variety of career/vocational concerns such as choice of studies, of school, or of an occupation; measurements of aptitudes, interests, and abilities are carried out by the staff. Failures in school or work as well as difficulties in reading can be professionally evaluated in a confidential manner. Psychotherapy, counseling, psychiatric evaluation, psychological testing and vocational guidance are the fundamental services of the Center. Services may be used by any member of the Xavier community. Undergraduate full-time students are provided such services free of charge.

Bookstore

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

St. Barbara Hall

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

A.B. Cohen Center

This property was donated to Xavier University by the U.S. Shoe Corporation in 1982. The Center is the location of the University Department of Buildings and Grounds, and the Office of Graphics and Publications. It also provides athletic facilities for Xavier students.

Campus Parking

All cars on campus must carry a currently valid Xavier University parking permit. Student parking is available on the main campus in the North Campus Parking Lot accessible from Herald Av next to Husman Hall, and in the A. B. Cohen Center, also entered from Herald Av. All resident students are permitted cars provided they are registered. Visitors to the 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 Av just east of Victory Parkway. Security personnel will issue visitors a temporary parking pass.

The University

Edgecliff Campus

Location

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

Administration Building

This building houses the Office of the Dean of the College of Professional Studies as well as the offices of the Graduate Program in Hospital and Health Administration. The Hospital and Health Administration Center is located here. There are also several classrooms, some faculty offices, a chapel and a dining room in the building.

Brennan Memorial Library

Brennan Memorial Library, located in Sullivan Hall on the Edgecliff campus, supports the undergraduate programs offered at Edgecliff. The collection consists of 12,000 volumes of books and journals, 2,000 pieces of A. V. software and 200 current journal subscriptions, primarily in nursing, social work and the fine arts. Edgecliff students have access to collections and services at McDonald library and Lodge Learning Lab on the main campus, and to area libraries which are members of the Greater Cincinnati Library Consortium (GCLC).

Carriage House

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

Edgecliff Corbett Theatre

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

Emery Gallery

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

Grace Hall of Science

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

Maxwelton

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

Sullivan Hall

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

Student Services

Academic Bridge Program

The Academic Bridge Program is designed to help freshmen bridge the gap in their academic backgrounds through academic advising, tutoring, and appropriate course selection.

Program participants include freshmen in the Summer Bridge Program and freshmen who are admitted conditionally to any of the undergraduate day colleges.

The program offers reading, writing, and math laboratories for undergraduate students and serves as a clearing house for all student tutoring programs sponsored by academic departments.

Academic Advising

Deans and Associate and Assistant Deans of the Colleges of Arts and Sciences, Business Administration, Professional Studies and the Division of Continuing Education, serve as advisors in the respective colleges. They are assisted by Academic Advisors whose offices are located on the first floor of Alter Hall. The Foreign Student Advisor is available to all foreign students for matters of admission and other items pertaining to the U.S. Immigration and Naturalization Service. Students who have selected a major should be advised by a faculty member in the department of their major.

Afro-American Student Development

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

Campus Ministry

Bellarmino 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.

Career Planning and Placement

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

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

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

Community Relations

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

Food Service

Serving both the main campus and the Edgecliff campus, the Saga Corporation provides a full range of meal services to the University. Resident students are required to purchase a meal plan option and additional plans are available to meet the needs of commuter students. Special diets may be arranged for those with special needs.

Student Services

Health and Counseling Center

McGrath Health and Counseling Center provides physicians, registered nurses and counselors to serve students and the University community. It is located in Kuhlman Hall. Health services are offered to all students. Counseling services may be used by any member of the University Community: students, faculty and staff. There is a small fee for medications.

Information Center

The Information Center, located in the University Center, assists with the identification of campus resources and maintains information on student and staff phone numbers, emergency services, campus events and ticket sales, student organizations and activities, and serves as a general referral source for the campus.

Intercollegiate Athletics

Xavier University believes that there are sound values in intercollegiate athletic competition and that it has a valid place in American education. Intercollegiate athletics, therefore, are conducted to further the education of the students physically, emotionally, intellectually, and morally. Participants learn the value of cooperative effort and the necessity of subordinating their own good to that of the group. They also learn the need for poise and 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.

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

Participants in intercollegiate athletics, as in other co-curricular activities, must be bona fide students in good standing. They must have entered the University in accordance with the admission norms published in the catalogue and will be subject to 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.

At the club level, the University also provides the opportunity to participate in rifle, rugby, boxing, karate, ice hockey, and bowling.

Intramural Athletics

The Intramural Program provides the opportunity for every Xavier student, faculty member, and staff member to participate in athletic competition and recreational sports. These varied sports programs are designed to individual and group recreational needs. Facilities include the Cohen Outdoor Recreation Sports Center and the O'Connor Sports Center. Full-time students are members of the Sports Center and may use its facilities. Other students, faculty and staff are charged a reduced membership rate.

Manresa: Xavier's Orientation Program

Manresa is a cooperative and collaborative effort which involves the campus academic and student services personnel. This residential program is a balance of social, cultural, and academic experiences which are structured to ease the student's transition into Xavier University and the college experience. Special program segments speak to the needs of parents, international students, commuters, transfer students, minority students, part-time students, and adult students.

Office of Commuter and Part-time Student Affairs

This office assists the student population to become familiar with the Xavier campus and with the many programs, processes, and services which are a part of student life. The office acts as a clearing house for information and referral for this special group.

Residence Life

The residence halls on both campuses continue the educational atmosphere begun in the classrooms. A trained staff team coordinates educational and social programs designed to provide a secure and supportive living area. Unmarried undergraduate students 23 years old or younger, whose home address is located beyond a 35 mile radius from Xavier, must live on campus. Exceptions to this regulation may be made by the Director of Residence Life. Cincinnati area students are invited to live in a residence hall as space is available.

Safety and Security Office

Trained professional officers are available on a 24 hour basis in the Safety and Security Office, located in the University Center. In addition to providing general assistance to the Xavier Community, the officers regulate campus parking, sell parking permits, and present programs throughout the year dealing with crime prevention and safety awareness.

Special Students Assistance Program

Xavier University is committed to providing equal opportunities for higher education to academically qualified handicapped students. This is best done, we believe, by integrating these students as completely as possible into the university community. The university recognizes that merely admitting handicapped students is not sufficient to insure adequate opportunities for successful attainment of goals and objectives. As much as possible, the university assists the student by providing special academic advising to develop a program which meets academic standards and requirements, yet recognizes the student's individual skills, talents, and limitations. Whenever necessary, advisor, student and faculty work together to provide a learning environment that promotes academic success and personal development.

Student Activities Office

The Student Activities Office is the major source for campus programming of lectures, movies, dances, entertainers, and a wide variety of other events designed to satisfy the diverse needs and interests of the Xavier Community. Although academic pursuits are the major focus of University life, participation in campus clubs and organizations is also a valuable learning experience. Students may choose to become involved in Student Government Association, Student Activities Council, or over seventy different interest groups.

Vice President for Student Development

While serving as the administrative center for all of Student Development, the Office of the Vice President for Student Development assists individual students with special problems or concerns. General assistance is offered through the Vice President and the Dean of Students Office, and student comments, suggestions, compliments and concerns can be addressed. The Dean of Students is also responsible for the enforcement of the Campus Disciplinary Code. All students are expected to abide by the rules of conduct specified in the Campus Disciplinary Code, the Student Handbook, and the Residence Life Handbook.

On the Edgecliff campus, the Coordinator of Student Development Services and Campus Ministry has special responsibility for the needs of the Edgecliff student population.

Privacy Rights

Privacy Rights of Parents and Students

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

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

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

Types of Records Maintained

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

Offices Responsible for Maintenance of Records:

Records	Official's Name and Title
Admissions	Mr. Rene Durand, Dean of Admissions Dr. Robt. H. Helmes, Dean, Division of Continuing Education Dr. Thomas Hanna, Associate Dean, Graduate Programs
Academic	Mr. James R. Kaiser, University Registrar Dr. Robt. H. Helmes, Dean, Division of Continuing Education
Housing, Main Campus Housing & Discipline, Edgecliff Campus	Ms. Sylvia Bessegato, Director of Residence Life Bro. Darrell J. Burns, S.J., Coordinator of Student Services
Financial Aid	Mr. James F. Kelly, Director of Student Financial Aid Dr. Robt. H. Helmes, Dean, Division of Continuing Education Dr. Thomas Hanna, Associate Dean, Graduate Programs
Discipline	Ms. Margaret Dillon, Dean of Students
Health	Dr. Lon Kriner, Director, Health and Counseling Center
Psychological Counseling	Dr. W. Michael Nelson, III, Director, Psychological Services Center
Athletic	Mr. Jeff Fogelson, Director of Athletics
Placement	Ms. Stephanie M. Bates, Director, Career Planning & Placement
Teacher Education and Placement	Dr. Milton A. Partridge, Chairman, Department of Education

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 administra-

tors, provided these notes are not available to a third party other than a teacher's substitute. (2) Law Enforcement Records, to include those of the campus police force. (3) Medical and Psychiatric Records - these records are not available to anyone except those providing the treatment. However, the records may be reviewed by a physician or other appropriate professional of the student's choice.

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

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

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

Procedures for Challenging Content of Records

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

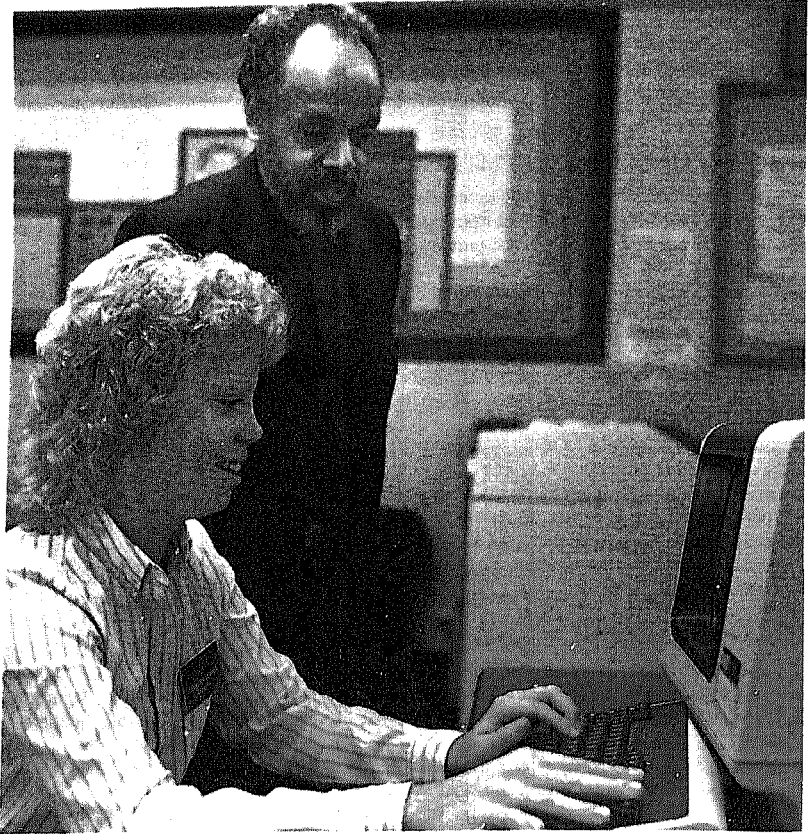
Cost of Reproducing Files

Students have a right to request and receive copies of all materials contained in those files deemed accessible in Section 4.1. The cost of reproduction shall be borne by the requesting party, and shall not exceed the cost to the institution. The present charge for a Xerox duplicate must be paid per page, per copy. The current charge for transcripts must be paid for a complete copy of the academic record. A representative of Xavier University will be present during the duplication to insure that complete and accurate copies are made to prevent the possibility of unauthorized deletions or corrections.

Directory Information

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

Xavier University is required to publicly announce to the students that which Xavier will release as directory information. If a student does not wish "directory information" released by Xavier, that student must inform the appropriate offices about which information should not be released.



**College of Arts and Sciences
College of Business Administration
College of Professional Studies
Division of Continuing Education**

Admission policies apply to all undergraduate degree candidates. Those planning to enter Xavier as non-degree undergraduates should apply directly to the Division of Continuing Education.

Admissions

Application for Admission

Students applying to the College of Arts and Sciences, the College of Business Administration, or the College of Professional Studies must submit an "Application for Admission", which can be obtained from the Office of Admission. The completed form should be returned to that office with a \$15.00 application fee. This fee is not refundable nor 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 Admission an official transcript of the academic record. Scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) should also be forwarded. A recommendation from a counselor or a teacher is encouraged. 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.

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

Requirements for Admission

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

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

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

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

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

Xavier University is an academic community committed to equal opportunity for all persons regardless of age, sex, race, religion, handicap, or national origin.

Admissions

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 Admission, or if they are applying to the Division of Continuing Education, to the Dean of that division.

Advanced Placement

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

Early Admission

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

Readmission

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

Transfer Students

Xavier University welcomes qualified students from other institutions of higher education. In addition to the credentials required of all freshman applicants, transfer students must forward to the Office of Admission 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 courses (except co-op and life experience) in which a grade of "C" or better has been received. 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. Courses must be such that successful completion of the second term is contingent upon material learned in the first term. Students who transfer into Xavier with an associate degree will have all courses accepted (except co-op and life experience) which were accepted for the associate degree even grades of "D", provided only that the overall quality point average is at least 2.0.

The transfer credit, but not the grade, is recorded on the student's permanent record. Similarly, the grades are not computed in the student's Xavier grade point average. At least one-half of the course requirements of the major must be completed at Xavier University. Xavier's under-

graduate day colleges will accept course work successfully completed within the last ten years; credit over ten years old is acceptable only upon individual review by the Dean. This time limitation also applies to work done by previous Xavier students returning after an absence.

Transfer students must meet the on-campus housing requirement. Please see Student Housing, page 21.

Transfers within the University

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

International Students

Students from foreign countries who wish to apply to Xavier University must submit, in addition to the application for admission form, official documentation, i.e., transcripts, proof of graduation, etc. (in English translation) of all secondary work. An applicant must have completed the level of education required for university admission in the student's native country. This information should be sent, if the student wishes undergraduate admission, to either the Admission Office of Xavier or to the Director of International Programs, c/o the Division of Continuing Education.

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 Director of the program to the appropriate Dean or the Admission Office for their approval. However, successful completion of the ESL program DOES NOT guarantee admission to the University.

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, plus a separate statement from an official source which gives evidence of the sponsor's ability to meet the expenses. An official medical examination report is also required for admission. All documents should be received by the Admission Office at least three months prior to the intended term of enrollment.

International students must meet the University's on-campus housing requirement. Please see Student Housing, page 21.

Special Students

Students who possess sufficient educational background, maturity, and experience may, with the Dean's consent, choose special courses through the Division of Continuing Education 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. Normally, a student may take a maximum of 30 semester hours as a special student before applying for degree candidacy.

Provisional Admission

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

Veterans

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

Admissions

Notification of Admission

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

Deposits

All new applicants who have been approved for admission are required to confirm their acceptance with a non-refundable tuition deposit of \$50. The deposit may be submitted any time after the letter of approval has been received, but it must be paid by May 1. In addition, students who wish to reserve a campus housing accommodation must submit a non-refundable \$75 housing deposit (room reservations will not be honored without payment of the deposit).

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

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

Admission to the Division of Continuing Education

Undergraduate students seeking admission to the Division of Continuing Education, whether interested in the humanities, sciences, business, or professional studies, should apply to: The Dean, Division of Continuing Education, 3800 Victory Parkway, Cincinnati, OH 45207.

While most of the regulations listed earlier under "Application for Admission and Admissions Requirements" apply also to the Division of Continuing Education, there are some differences between full-time and part-time student admissions and for certain programs. Those seeking admission would be well advised to write or telephone the Continuing Education Office (745-3355) in advance for specific information.

While there is a difference in both tuition and fees for full-time and part-time students, it should be noted that full-time students registered for 12 or more semester hours pay the same tuition and fees, regardless of whether registered through the Division of Continuing Education or one of the three colleges.

TUITION AND OTHER EXPENSES

The University reviews its financial policies and procedures on a continual basis in order to operate in an efficient and effective manner. Policies contained in this section are those in effect as of publication date and subject to change as deemed necessary by the University.

FEE PAYMENT

The Bursar's Office is responsible for the assessment and collection of tuition and fees payable to Xavier University. Inquiries should be directed to the Bursar's Office, Xavier University, 3800 Victory Parkway, Cincinnati, Ohio 45207. Telephone (513) 745-3435.

All prior financial obligations to the University must be paid in full before registration will be permitted for any new semester or session. If payment or other arrangement is not made by the announced deadline, the Bursar has the option of cancelling the student's registration. University regulations prohibit the release of transcripts and diplomas for students whose accounts with the University are delinquent.

PAYMENT OPTIONS

All student charges are due and payable at the time of registration. The University accepts payments in cash, checks, Visa and Mastercard.

Full-time graduate and undergraduate students may enroll in the Xavier Ten-Month Payment Plan whereby payments for the Fall and Spring semesters can be spread equally over a ten-month period from June 1 through March 1. If payments to the plan are current, one half of the budgeted amount is applied against each semester's charges with any additional amount due payable at the time of registration. Detailed information is available from the Office of Student Financial Aid.

Deferments of payment are granted to students receiving certain types of financial assistance, such as grants, scholarships and loans, which have not yet been applied to their Bursar Accounts. Deferments may also be granted in "special" financial situations on a case-by-case basis by the Director of Financial Aid.

Any unpaid balance is subject to a late payment charge equal to one and one-half percent (1½%) per month of the amount due.

ADVANCE REGISTRATION

Students who have signed up for courses during the pre-registration period for the Fall and Spring semesters will receive an estimated billing detailing charges for tuition, fees, housing and board in addition to anticipated financial aid arranged through the University's Office of Financial Aid as of that date. Payment is due approximately two (2) weeks prior to the first day of classes.

Payment must be made, or a deferment obtained as described above, by the due date to ensure a spot in the classes in which the student has pre-registered. If payment is not made the student must attend Walk-In Registration.

WALK-IN REGISTRATION

All students are required to pay 100% of tuition and fees at the time of registration with the exception of amounts covered by the Ten-Month Payment Plan or deferments as described above.

LATE REGISTRATION

All students are required to pay 100% of tuition and fees with the exception of amounts covered by the Ten-Month Payment Plan or deferments. A \$25 late registration fee will be assessed for all students who register during the late registration period.

Financial

TUITION AND FEES

Undergraduate students taking twelve (12) or more semester credit hours are considered full-time students. Students taking between 12 and 18 hours are charged the University's full-time tuition rate. The per hour tuition rate is charged for credit hours taken in excess of 18 and fewer than 12. Students taking undergraduate courses for audit purposes are charged fifty percent (50%) of the undergraduate tuition rate plus any applicable fees.

The University has incorporated its general and ID fees for full-time students in its full-time tuition rate so that parents and students can more easily ascertain the cost of attendance. Graduate and part-time undergraduate students are charged a student services fee which entitles the student to use of library, Health and Counseling Center, Career Planning services, reduced charge for membership to O'Connor Sports Center, and access to other student activities programs.

The University publishes the Schedule of Tuition and Fees each academic year, which lists the charges for tuition, housing, board plans and other recurring and non-recurring fees in effect in the current academic year. Specific course fees, lab fees and deposits are listed in the current Schedule of Classes. A description of selected fees follows:

Application/Matriculation Fees – payable once and designed to cover the costs of processing applications for enrollment and setting up of student records.

Student Orientation Fee – covers the costs for the Manresa orientation program for freshman and transfer students.

Housing Reservation Deposit – a non-refundable deposit required to reserve a room in University residence halls. Deposit is applied against subsequent room rent charges.

Room Security Deposit – A \$100 refundable deposit for all students residing in University residence halls.

Hall Improvement Fee – A \$20 annual fee designated for residence hall improvements.

Parking Permit Fee – All vehicles using University parking lots are required to have valid parking permits. Permits valid evenings and weekends only are available at a reduced rate.

Graduation Fee – Payable by all students who graduate, whether in person or *in absentia*.

REFUNDS (UNDERGRADUATE)

Students who officially withdraw from the University or drop a class(es) are eligible for a refund of tuition based upon the amount of tuition assessed and the date of official withdrawal. Lab and course fees are not refundable after classes begin. Students who do not officially withdraw through their college or the Registrar's Office are not entitled to any refund. The following schedule is used for the Fall and Spring semesters:

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

Tuition refunds for summer sessions are prorated based upon the official withdrawal date and the portion of the session elapsed. Contact the Bursar's Office for specific refund amounts.

In extraordinary circumstances, such as serious illness or injury, when a student is forced to withdraw from classes after the refund period has ended, a written appeal may be made to the Dean of the College requesting special consideration. Appropriate documentation is required with such an appeal.

Financial Aid

Scholarships

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

1. For the College of Arts and Sciences, College of Business Administration (undergraduate), and the College of Professional Studies: The Director of Financial Aid or the Chairman of the Scholarship Committee.
2. For the Division of Continuing Education: The Dean, Division of Continuing Education.
3. For Graduate Scholarships: The Associate Dean, Graduate Programs (cf. page 267).
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, Hospital and Health Administration.

UNDERGRADUATE SCHOLARSHIPS

College of Arts and Sciences, College of Business Administration, College of Professional Studies

St. Francis Xavier Scholarships

These full-tuition scholarships are awarded annually to incoming freshmen in recognition of superior talent and the highest academic achievement. All freshmen approved for admission by February 1 will be considered for these scholarships. They are renewable for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.0 in the freshman year and 3.25 thereafter.

Trustee, Presidential, and Honor Scholarships

These partial tuition scholarships are awarded to incoming freshmen and transfer students in recognition of superior talent and high academic achievement. The amount of the scholarship depends on the student's academic qualifications and financial need, although a limited number are awarded solely on the basis of academic merit. Applicants must submit the College Scholarship Service Financial Aid Form and the Xavier Application for Financial Aid by April 15. These scholarships are renewable for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.0 in freshman year and 3.25 thereafter.

Upperclassmen Scholarships

These partial-tuition scholarships are awarded to students who have completed at least 24 hours at Xavier with a cumulative average of 3.25 or better, and have no other Xavier-sponsored scholarship or grant. While most of these scholarships are need-based, a limited number are awarded solely on the basis of academic merit. Applicants must submit the College Scholarship Service Financial Aid Form by April 15.

Mother McAuley Scholarships, Arts Recognition and Talent Search Scholarships and the Scholastic Art Awards.

These talent scholarships, some full-tuition and some partial, are awarded annually to incoming freshmen and, in some cases, to transfer students who plan to major in Art, Music, or Theatre Arts. They are awarded on a competitive basis. Interested prospective students should contact the Admissions Office for further details.

Financial

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.

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

1. Xavier-sponsored scholarships apply to tuition alone. The tuition costs referred to here are those incurred on Xavier's campuses and not elsewhere. Scholarships are not applicable to room, board, fees, nor to the cost of summer school courses.
2. Only full-time students are eligible for scholarships.
3. Scholarships must be accepted for the period of time indicated in the award letter from the Financial Aid Office, and they are forfeited in the event that the recipient does not enroll. An individual who wishes to have a scholarship reinstated, after having forfeited it, must reapply.
4. It is understood that the scholarship 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.
5. All scholarships are awarded at the discretion of the Admissions and Financial Aid Committee of Xavier University. The Committee reserves the right to adjust the scholarship if the holder receives financial aid from some other source.

ROTC Scholarships

The Department of the Army annually awards two-year, three-year, and four-year ROTC Scholarships to outstanding students. Information and application for the four-year scholarships are submitted by high school senior candidates through the "Army ROTC, Fort Monroe, VA. 23651." For additional information, high school seniors should contact their guidance counselors or the Xavier University Military Science Department. Annually, two-year and three-year scholarships may be awarded to members of the Xavier University junior and sophomore 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.

GRANTS, LOANS, WORK-STUDY Ohio Instructional Grants Program

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

Federal Financial Aid Programs

The following eligibility requirements must be fulfilled for Federal Financial Aid Recipients for the five programs which follow these requirements.

1. Be a U.S. citizen or permanent resident.
2. Must be enrolled on at least a half-time basis (6 semester hours or more) in eligible course of study at Xavier University.
3. Have demonstrated a financial need according to each program's criteria.
4. Maintain "satisfactory academic progress."

5. Not be in default on any loan made from a student loan fund at Xavier University or on a loan made, insured, or guaranteed under the Guaranteed Student Loan Program for attendance at Xavier University.
6. Not owe a refund on grants previously received for attendance at Xavier University under the Pell 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, and be judged capable of maintaining good academic standing.

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

Guaranteed Student Loan

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

The College Work-Study Program

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

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

Supplemental Educational Opportunity Grants

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

Pell Grants

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

Grants ranging from \$200 to \$1,900 are made to students with financial need who are enrolled one-half, three-quarters, or full-time in an eligible undergraduate program.

Financial

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

Plus Program Loan

Parents may borrow from a participating bank, savings and loan, or credit union up to \$3,000 per academic year for each dependent student enrolled in college regardless of the family's income. The simple interest rate is 12%. Repayment must begin within 45 days after the loan is made, but the family may take up to 10 years to repay the loan. The loans may be consolidated if the family takes out another loan the following year. Detailed information and applications are available from financial institutions.

Scholarships

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

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

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

Laura Albers Memorial Scholarship

Audrey C. Alonso Memorial Scholarship

Mr. & Mrs. William L. Alter Scholarship

Alumni Chapter Scholarships — Cleveland, Columbus, Dayton, Detroit, Toledo

Charles B. Amann Scholarship

Msgr. Charles E. Baden Memorial Scholarship

C. Robert Beirne Memorial Scholarship

Blakely Family Memorial Scholarship

Edmund J. Bradley Memorial Scholarship

J. Peter Brady Memorial Scholarship

Mother Hilda Brennan Memorial Scholarship

Mildred C. Brinn Scholarship

Albert F. and Bernadetta Broering Memorial Scholarship — in memory of Rev. Theodore Rolfes and Ada M. Rolfes

John R. Bullock Memorial Scholarship

Henry Bunker Memorial Scholarship

Paul & Betty Burkhart Scholarship

Raymond L. Buse Memorial Scholarship

Anne D. Butz Memorial Scholarship

Centennial Scholarship

Ralph W. Chambers Memorial Scholarship

Helen Clark Scholarship

C. A. Claggens Memorial Scholarship

Class of 1931 50th Anniversary Scholarship

Class of 1932 50th Anniversary Scholarship

Class of 1933 50th Anniversary Scholarship

Class of 1956 25th Anniversary Scholarship

Class of 1958 25th Anniversary Scholarship

Class of 1969 Scholarship

Class of 1970 Scholarship

Class of 1971 Scholarship

Class of 1973 Scholarship

Class of 1974 Scholarship (in memory of Doreen Jankowski)

Class of 1985 Scholarship

Ralph and Julia Cohen Scholarship

Cohen Foundation Scholarship
Helen and Harry Cordesman Memorial Scholarship
James H. and Mary S. Curran Memorial Scholarship
Jack Currus Memorial Scholarship
Raymond E. and Grace Daley Scholarship
William H. Deddens Memorial Scholarship
Helen Hennigan Diehl – Thomas J. Klinedinst Scholarship
Rev. Albert Dierkes, S.J., Memorial Scholarship
The Dornheggen Scholarship
Jesse K. Dunn Memorial Scholarship
Joseph E. Ebertz Memorial Scholarship
Anna Louise Flynn Memorial Scholarship
Rev. Lawrence J. Flynn, S.J., Scholarship
John A. Fogarty Scholarship
Fredin Memorial Scholarships
Garry Family Memorial Scholarship
Msgr. William Gauche Memorial Scholarship
Harry J. Gilligan Memorial Scholarship
James F. Griffin, III, Memorial Scholarship
L.H. Gunter Memorial Scholarship
Dr. Thomas J. Hailstones Scholarship
Rita Elsaesser Harpenau Memorial Scholarship
Robert F. Hartman Scholarship
Frederick A. Hauck Physics Research Scholarship
Rev. William P. Hetherington, S.J., Memorial Scholarship
Mr. F. W. Hinkle Memorial Scholarship
Louis J. Homan Scholarship
Doreen Jankowski, Class of 1974, Memorial Scholarship
Thomas K. Jenkins, Jr., Memorial Scholarship
Antonio Johnson Memorial Scholarship
Richard A. Jones Memorial Journalism Scholarship
Eva Kroger Memorial Scholarship
Leo G. Kuhlman Memorial Scholarship
Margaret C. Link Memorial Scholarship
Long Memorial Scholarship
Edward F. Macke, '98, Memorial Graduate Scholarship
Fred F. Mackentepe Memorial Scholarship
William V. Masterson, '41, Memorial Scholarship
Walter A. McDonald Memorial Scholarship
Walter A. and George McDonald Memorial Fund
Kenneth R. (Bill) McKowen Memorial Scholarship
Archbishop McNicholas Memorial Scholarship
Angela Del Vecchio Miller Memorial Scholarship
Rev. Frederick N. Miller, S.J., Memorial Scholarship
Marvin J. Moran Memorial Scholarship
Rev. Robert W. Mulligan, S.J., Scholarship
Mary E. Nebel Memorial Scholarship
John H. Newman Memorial Scholarship
John F. Niehaus Memorial Scholarship
Katherine Niehaus Memorial Scholarship
Rev. Victor B. Nieporte, S.J., Memorial Scholarship
Mr. & Mrs. Fletcher E. Nyce Scholarship
Rev. Edward J. O'Brien, S.J., Memorial Scholarship
Rev. Paul L. O'Connor, S.J., Memorial Scholarship
Mr. & Mrs. Theodore H. Oppenheim Memorial Scholarship
James J. Patton Scholarship
Peterloon Foundation Scholarship

Financial

Rev. Joseph J. Peters, S.J., Scholarship
Rev. William F. Poland, S.J., Memorial Scholarship
A. Poplis Family Memorial Scholarship
Joseph B. Reynolds Memorial Scholarship
L. Robert T. Rice, Jr., Memorial Scholarship
Claude A. Ritter Memorial Scholarship
Mathew Ryan Family Memorial Scholarship
Ryan Sisters Memorial Scholarship
Wilson J. (Woody) Sander Memorial Scholarship
Rev. Thomas G. Savage, S.J., Memorial Scholarship
Jacob G. Schmidlapp Memorial Scholarship
Rev. William J. Schmidt, S.J., Memorial Scholarship
Jacob W. Schweizer Memorial Scholarship
Mary B. Shannon Memorial Scholarship
Mary Claire Shaunnassy Memorial Scholarship
Margaret Shea Memorial Scholarship
Janet and Ralph Steve Scholarship
Sisters of Mercy Scholarship
George Springmeier Memorial Scholarship
Sherri Lee Stiefler Memorial Scholarship
James & Cornelia Templeton Memorial Scholarship
Dr. & Mrs. William J. Topmoeller Memorial Scholarship
Fred Tuke Memorial Scholarship
Gertrude L. Vasey Memorial Scholarship
Mary Poland Verkamp Memorial Scholarship
A.R. Vonderahe, M.D., Memorial Scholarship
Marcella B. & Edward P. VonderHaar Memorial Scholarship
Frank B. Walsh Memorial Scholarship
Mary Manning Walsh Memorial Scholarships
Elizabeth Ryan Williams Memorial Scholarship
Williams Family Scholarship
Worpenberg Family Memorial Scholarship
G. Milton Wurzelbacher Memorial Scholarship
E. Nelson Zoeller Memorial Scholarship

Undergraduate Curricular Information

Degrees

The College of Arts and Sciences offers the following degrees: Bachelor of Arts, Honors Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, and Associate in Arts and Sciences. The College of Business Administration offers the following degrees: Bachelor of Science in Business Administration and Associate in Business Administration. The College of Professional Studies offers the Bachelor of Science, the Bachelor of Science in Social Work, the Bachelor of Science in Nursing, Bachelor of General Studies, the Associate of Applied Science, the Associate in Science, and the Associate in Real Estate. A complete list of the undergraduate degrees conferred by the University can be found on pages 49-50 of this catalogue.

The Core Curriculum

The Core Curriculum summarizes the University's general education requirements and reflects its commitment to the values of a liberal education in the Jesuit tradition. In general, the requirements of the Core apply to all of the University's major programs regardless of college, although there are a few modifications in the Core in certain majors. What follows is an explanation of the Core Curriculum as it applies to most degree programs. Students seeking specific core requirements of a particular program should consult the description of that program as it appears elsewhere in this catalogue.

Humanities

Every student must successfully complete 12 semester hours of humanities electives. At least 6 of these hours must be in literature. Any literature course, regardless of the language in which the literature is written, satisfies this requirement. The final 6 hours may also be in literature, but the student is free to select any of the courses in Art, Communication Arts, Music or Theatre which have been approved as Core Curriculum courses. Philosophy (Area IV) and Theology courses over and above the 12 hours required in each of these disciplines, also fulfill the humanities non-literature requirement. For a list of these non-literature humanities electives which have been so approved, the student should consult the Semester Schedule of Classes published by the Registrar each semester.

Social Science

The student must also complete 12 hours of social sciences electives. In the College of Arts and Sciences and the College of Professional Studies, 6 of these hours must be in history courses (HS 100 through HS 199). They must include a I and a II course. Students working towards a degree in Education should take one course in western history and one in non-western history.

Students in the College of Business Administration must take EC 100 Microeconomic Principles and EC 101 Macroeconomic Principles as 6 hours of social sciences electives.

All students complete the final 6 hours of the social sciences requirement by selecting courses from the list of Core approved social sciences electives published each semester in the final pages of the Semester Schedule of Classes.

Mathematics

Six semester hours of mathematics are also required of all students. In many degree programs the mathematics courses are electives, but certain degree programs require specific mathematics courses. For information concerning the math requirement in any particular major, consult the description of that major which can be found elsewhere in this catalogue. Students may not fulfill this requirement by taking two courses that are similar in content as, for example, MT 150 Elements of Calculus and MT 170 Calculus I.

Those who enter Xavier deficient in math skills will be required to successfully complete MT 105 Fundamentals of Math before attempting any other mathematics course. While MT 105 does earn credit for the student, it does not count as one of the courses needed to fulfill the 6 hours mathematics requirement.

Curricular Information

Laboratory Science

Six semester hours of the same science (lecture and laboratory) are required of all students. Unless a particular science is specified by the major department (see departmental requirements), students may select any one of the approved laboratory sciences. A list of the sciences so approved is published each semester in the final pages of the Semester Schedule of Classes.

Philosophy

Twelve hours or 4 courses of philosophy are required. One course is elected from each of 4 areas. Students who began the study of philosophy at Xavier before September 1, 1984, should complete the "old" program as follows:

Area I Philosophy of Man

Area II Metaphysics

Area III Ethics

Area IV Elective

Students who began or will begin the study of philosophy after September 1, 1984, must complete the following sequence of courses:

Area I Ethics as Introduction to Philosophy

Area II Metaphysics

Area III Theory of Knowledge

Area IV Elective

The Area I course is a prerequisite for Area II which is a prerequisite for Area III which, in turn, is a prerequisite for Area IV.

The number of philosophy courses required of a transfer student depends on the transfer evaluation. Normally, however, a transfer student must take one philosophy course for each academic year spent at Xavier.

Theology

Twelve hours or 4 courses of theology are required. The first course must be TH 111 Introduction to Theology. Students then select 3 additional theology courses numbered TH 200 through TH 399. While the number of theology courses required of a transfer student depends upon the transfer evaluation, normally transfer students take one theology course for each academic year completed at Xavier.

English Composition

In order to insure that every student has sufficient writing skills, all are required to take EN 101 English Composition unless the English Department waives this requirement or substitutes a more advanced writing course for it. This course should be taken in freshman year, if at all possible.

Foreign Languages

Most programs in the College of Arts and Sciences and the Criminal Justice program in the College of Professional Studies require an intermediate level of proficiency in a foreign language. This may be fulfilled by successful completion of 12 hours, or 4 courses, of the same foreign language (French, German, Greek, Latin or Spanish). To find out whether or not a degree program requires a foreign language, consult the description of the program in this catalogue.

For students who have studied a foreign language prior to enrolling at Xavier, all or part of this requirement may be waived depending on the level of proficiency. For such students, the Departments of Classical Languages and Modern Languages offer proficiency tests. The departmental Chair should be consulted for details. International students whose native language is not English fulfill the language requirement by their proficiency in English.

Summary of Core Curriculum

Fundamentals of Mathematics	(unless waived) 3 hours
Mathematics	6 hours
Laboratory Science	6 hours
History (A&S and CPS) or Economics (CBA)	6 hours
Social Sciences	6 hours
Theology	12 hours
Philosophy	12 hours
Humanities-Literature	6 hours
Humanities-Electives	6 hours
English Composition	(unless waived or substituted) 3 hours
Foreign Language	(not required in all degree programs) 12 hours

The Major

Every student must complete all the requirements of a major. Before selecting their major or changing from one major to another, students should consult an academic advisor. The declaration of a major or a change of major is handled through the offices of the Deans.

In order to graduate with two majors, a student must complete all the curricular requirements of both majors including the comprehensive examination or its equivalent. Both majors are noted on the student's permanent record, but only one degree is conferred, namely the one that corresponds to the student's first major. The student must also complete the Core Curriculum requirements of the first major. The Core Curriculum requirements of the second major need not be completed unless a business major is elected as the second major. In this case, the requirements of the "Business Core" must also be met.

Free Electives

A number of University degree programs and majors require additional hours of courses in order to bring the student's total number of hours to 120, the minimum needed for graduation. These additional hours are called free electives. Students may take no more than 6 hours of free electives in their 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

- 100-199 Lower division courses.
- 200-399 Upper division courses.
- 400-499 Special University Programs, Undergraduate and Graduate.
- 500-899 Graduate courses only.

Academic Regulations

Academic Regulations

Classification of Students

Lower Division Groups:

1. Freshmen - students having fewer than 24 credit hours.
2. Sophomores - students having from 24 through 54 credit hours.

Upper Division Groups:

1. Juniors - students having from 55 through 89 credit hours.
2. Seniors - students having a minimum of 90 credit hours.

Other Groups:

1. Part-time - students taking less than 12 credit hours in any semester.
2. Special - students who have not declared themselves candidates for any degree
3. Auditor - Students taking courses but not for college credit.
4. Transient - Students from another college or university taking courses for transfer back to their home institution.

Unit of Instruction

A unit of instruction is equivalent to one hour a week for a minimum of fifteen weeks. The unit is called a semester 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 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.

Incomplete 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 grade of "I" (Incomplete) will be on the student's permanent record. Unless the assignments are completed within 2 weeks after the last day of the regularly scheduled examinations, the student will be recorded as failing the course. In all cases of recorded "I" grades, the "I" will remain on the permanent record and the earned grade or the failing grade will be recorded as well.

Advanced Placement and Credit by Examination

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

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

Grading System

- A - Exceptional
- B - Good
- C - Satisfactory
- D - Minimum passing

- F - Failure
- I - Incomplete, grade withheld pending fulfillment of assignments
- X - Absent from examination
- W - Withdrawal (approved)
- S - Pass for Satisfactory/Unsatisfactory electives
- U - Failure for Satisfactory/Unsatisfactory electives

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 earned to the total number of credit hours attempted in that session.

Satisfactory/Unsatisfactory

Juniors and seniors may take 6 hours on a Satisfactory/Unsatisfactory basis. In addition, education certification students must take their hours of field and clinical experiences and student teaching as S/U. Courses in Military Science may not be taken on S/U basis. Premedical and pre dental students should not take science courses as S/U, nor can those working for teaching certificates elect education courses on an S/U basis. Students in the College of Business Administration may *not* take required major courses or courses in the business core on S/U basis.

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

The semester hours in courses taken on a Satisfactory/Unsatisfactory basis will count toward the University's minimum semester hour requirement of 120 for graduation if they are passed successfully. Neither the course hours nor any quality points are computed into the student's grade point average if the grade is "Satisfactory." However, if the grade is "D" or "Unsatisfactory", both the credit hours and the earned quality points are computed into the student's cumulative grade point average.

Students must indicate election of a Satisfactory/Unsatisfactory 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's being placed on warning, or on probation, or being suspended from the University.

The freshman whose cumulative average falls below 2.0 but is not less than 1.75 in a semester will be warned. The freshman whose cumulative average falls below 1.75 in a semester will be placed on probation or suspended.

The student whose cumulative average as a sophomore, junior, or senior falls below 2.0 will be placed on probation or suspended.

During the semester that a student is on probation his or her program may be reduced to twelve semester hours.

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.

Academic Regulations

Eligibility for Participation in Extra-Curricular Activities

In order to be eligible for participation in extracurricular activities, a student must maintain a cumulative average of 2.0. This is understood in the following manner:

- a) Freshmen or new students at Xavier, admitted on the standards specified by the University (and the NCAA) are eligible for the entire year, provided they earn at least a 1.75 average for the first semester of eligibility;
- b) Students with sophomore standing must have a 2.0 at the beginning of the academic year. They will be eligible to participate in extracurricular activities the entire year. Accordingly, students with junior and senior standing must have a 2.0 at the beginning of the year respectively. Those who begin the fall semester below the eligibility standards will be ineligible for the entire year.

The minimum requirement for full-time study in an academic program may be waived for a student who is in the final semester of his or her baccalaureate program, provided the institution's registrar certifies that the student is carrying for credit the courses necessary to complete the degree requirements as determined by the faculty. The student granted eligibility under this exception shall also be eligible for NCAA competition which takes place immediately following said semester; however, the student shall thereafter forfeit eligibility in all sports.

Dean's List

In any semester students carrying at least 12 credit hours for letter grades (i.e., not Satisfactory/Unsatisfactory) with an average of at least 3.25 are placed on the Dean's List for that semester. (Part-time students in the Division of Continuing Education must carry 6 semester hours of letter grades.)

Writing Standards

In written papers for class assignments, the University requires a quality which meets acceptable standards of good English usage consistent with University objectives. Faculty members have the option of returning any paper which does not meet acceptable usage standards.

Academic Honesty

The pursuit of truth demands high standards of personal honesty. Academic and professional life requires a trust based upon integrity of the written and spoken word. Accordingly, violations of certain standards of ethical behavior will not be tolerated at Xavier University. These include theft, cheating, plagiarism, unauthorized assistance in assignments and tests, and the falsification of results and material submitted in reports.

All work submitted for academic evaluation must be the student's own. Certainly, the activities of other scholars will influence all students. However, the direct and unattributed use of another's efforts is prohibited as is the use of any work untruthfully submitted as one's own.

Penalties for violations of this policy may include one or more of the following: a zero for that assignment or test, an F in the course, expulsion from the university. The appropriate Dean's Office is to be informed in writing of all such incidents, though the teacher has full authority to assign the grade for the assignment, test, or course. If disputes of interpretation arise, the student, faculty member, and Chair should attempt to resolve the difficulty. If this is unsatisfactory, the Office of the Dean will rule in the matter. As a final appeal, the Academic Vice President will call a committee of tenured faculty for the purpose of making a final determination.

Disciplinary Action

Xavier University expects the conduct of its students on and off campus to be in accordance with the standards of Christian living. A student violating any University regulation will be subject to disciplinary measures. In minor cases, the Vice President 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.

Classroom discipline problems will be addressed through the Chair, Dean and finally the Academic Vice President, in accordance with accepted due process.

Loss of Academic Credit

Academic credits for courses in 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.

Absence from a Test

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

Transfer within the University

A student wishing to transfer from one undergraduate day college (Arts and Sciences, Business Administration, Professional Studies) to another must have a cumulative average of at least 2.0. In addition, the student must receive the written approval of both deans involved, beginning with the Dean of the college which the student is leaving.

There are various procedures for students registered through the Division of Continuing Education, depending upon their status:

1. Students who have not completed 30 semester hours of credit are categorized as "Special" students, not working toward a degree. They may not transfer within the University to one of the colleges before filing an application as a degree candidate. Specifics should be discussed with the Dean, Division of Continuing Education.
2. Students who have filed for degree candidacy with one of the colleges and have been accepted may file for transfer of registration into one of the colleges.
3. Students who have previously been admitted to one of the colleges of the University conditioned upon the satisfactory completion of the Xavier English Language American Civilization Program: These students automatically are eligible for direct transfer into one of the colleges upon successful completion of the ELAC program and upon the recommendation of the director of that program. Those not successful may not transfer.
4. Students entering the English Language American Civilization Program without previously applying for admission into one of the colleges of the University, must register through the Division of Continuing Education for the semester immediately following completion of the ELAC program. Upon the recommendation of the director of the ELAC program, those successful students must file for admission into one of the colleges through Xavier Admission Office, during that semester. Such students must earn a cumulative average of at least 2.0 during the semester as a full-time credit student, in order to be accepted as a degree candidate in one of the colleges.

It should be noted that all students registered through the Division of Continuing Education must file for degree candidacy in one of the colleges of the University upon successful completion of 30 semester hours at Xavier.

Withdrawal from Courses

Up until the end of late registration a student may cancel a course. A student may withdraw from a course with the grade of "W" during the period after late registration until the final date for withdrawal published in the semester Schedule of Classes. After the final date for withdrawal no withdrawal is possible and the student must accept whatever grade the instructor assigns. Students wishing to withdraw from a course should first consult the instructor or an academic advisor. Withdrawal must be done in person in the Registrar's Office. Withdrawal from short-

Academic Regulations

term courses is limited to the first two-thirds of the duration of the courses. The exact dates for withdrawal and refunds are published each semester in the semester Schedule of Classes.

Withdrawal from the University

A student who wishes to withdraw from the University must notify the office of the Dean and 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 for 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.

Transcript Regulations

Application for a transcript of credits must be made in writing by the student and filed with the University Registrar at least two weeks before the transcript is needed. The request should include the student's signature, the student's name as recorded on the academic record while in attendance, the student's ID, dates of attendance, and any degree earned.

Requests for transcripts for purpose of transfer to another university or for any other purpose cannot be granted during the busy period of examinations and registration.

Transcripts are issued only after the student has fulfilled all financial obligations to the University.

There is no charge for the first transcript. A fee is charged for each additional transcript.

Auditing Courses

Anyone wishing to audit a course without receiving credit may do so (consult the schedule of fees). 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 auditing is possible only in courses in which space is available.

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 after three weeks from the first day of instruction of the semester.

Off-Campus Courses

Students desiring to take courses at another accredited university must receive prior approval from their respective Dean. This normally requires presentation of a catalogue with a description of the desired course. For courses taken through the consortium to which Xavier belongs, both the credit and the grade earned are recorded on the student's Xavier record and the quality points are figured into the student's Xavier grade point average. Other off-campus courses are treated as transfer credit. Credit is granted provided that the grade earned was a "C" or better. The grade is not placed on the student's Xavier record, nor is it computed into the student's Xavier grade point average.

Requirements for Degrees

1. Candidates for undergraduate degrees must complete the requirements listed under the "Core Curriculum."
2. They must have attained a 2.0 average in the course work of the major. College of Business Administration students must also complete the business core with a 2.0 average.
3. They must have at least 120 hours with an overall average of 2.0.
4. They must have completed the last 30 hours at Xavier.
5. They must have filed a formal application for the degree.

Academic Regulations

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

Graduation Honors

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

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

1. They must have completed at Xavier University at least half the credit hours 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 comply with the requirements published in the catalogue for the year a student initially registers, provided the student continues in residence without interruption. 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

Xavier University offers a wide variety of opportunities to students who desire to study abroad as part of their undergraduate education. Through Xavier's Division of Continuing Education, the International Studies Office offers summer study programs in Austria, Colombia, England, France, and Spain. These programs vary from 4 to 8 weeks in length and offer from 6 to 13 hours of credit. For further information contact the Director, International Studies Programs, at (513) 745-3711.

Xavier also cooperates with other Jesuit schools in foreign study programs. For example, the program sponsored by Loyola University of Chicago and the Rome Center for Liberal Arts is especially recommended for foreign study. In addition Saint Louis University operates branch campuses in France and Madrid; Gonzaga offers studies in Florence, Italy; Georgetown presents a wide variety of worldwide study opportunities. Through Xavier's cooperation with the other Jesuit Universities, its students may spend a semester or an entire academic year in a foreign country studying language, literature, history and culture courses.

Xavier also offers its Fredin scholarship program through the College of Arts and Sciences. Four scholarships are offered to students annually, allowing them the opportunity to spend an entire year studying at the Sorbonne in Paris. For further information contact Rev. Thomas P. Kennealy, S.J., at (513) 745-3171.

Registration

Time of Registration

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

Late Registration

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

Change in Schedule

After the student has filed registration forms, changes in courses or sections can be made only with the consent of the Dean or the departmental advisor. Deadlines for adding and dropping courses can be found in the semester schedule of classes.

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

Number and Choice of Courses Permitted

The number and choice of courses or total number of credit hours in a student's program of studies are subject to such restrictions 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 Deans or of the chairs 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 that he may select.

Course Repetition

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

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

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

Honor Societies

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

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

Psi Chi. This national honorary fraternity was founded in 1929 for the purpose of encouraging, stimulating, and maintaining scholarship in, and advancing the science of, psychology. Membership is open to graduates and undergraduates who are making the study of psychology one of their major interests and who have achieved academic distinction at Xavier University.

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 forrager 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.

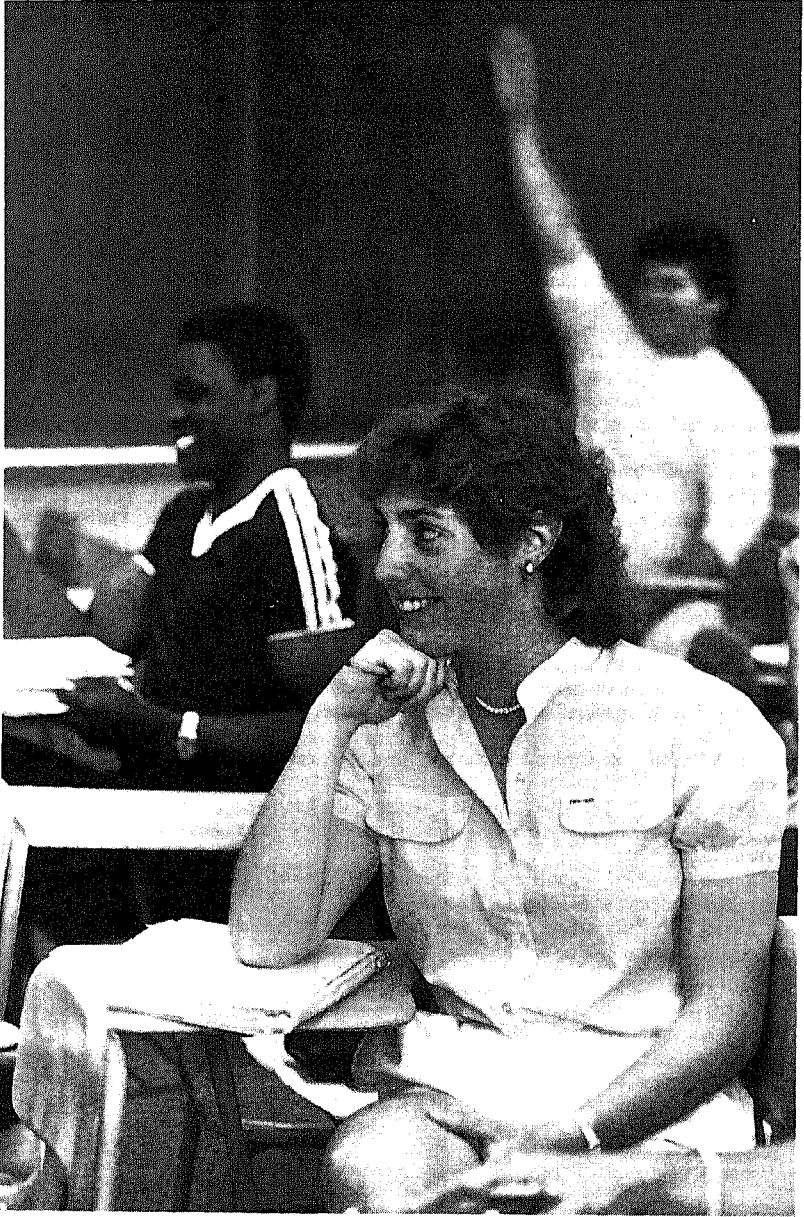
Pi Sigma Chi. Membership in PSC is for students who have completed 12 credit hours in political science (or will complete them in the semester in which they apply). Applicants must have an "A" or "B" in all political science courses and they must rank in the upper half of their class.

Pi Delta Phi. Iota Omicron is Xavier University's chapter of the National French Honor Society.

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

(offered by Colleges indicated)

College of Arts and Sciences (A&S) College of Business Administration (CBA)
College of Professional Studies (CPS) Division of Continuing Education (DCE)

ASSOCIATE OF APPLIED SCIENCE

Mortuary Science (CPS in cooperation
with Cincinnati College of Mortuary
Science (CCMS))

ASSOCIATE IN ARTS & SCIENCES

Chemistry (A&S)
Communication Arts (A&S)
Criminal Justice (CPS)
Early Childhood Educ (CPS)
English (A&S)
French (A&S)
History (A&S)
Nuclear Medical Technology (A&S)
Political Science (A&S)
Psychology (A&S)
Radiologic Technology (A&S)
Sociology (A&S)
Spanish (A&S)
Theology (A&S)

ASSOCIATE IN BUSINESS ADMINISTRATION

Accounting (CBA)
General Business (CBA)
Industrial Relations (CBA)
Information Systems/Data Processing
(CBA)
Management (CBA)
Marketing (CBA)

ASSOCIATE IN REAL ESTATE (CPS)

BACHELOR OF ARTS

Art:
Art Education (A&S)
Art History (A&S)
Art Therapy (A&S)
Fine Crafts (A&S)
Hand Crafts (A&S)
Commercial Arts (A&S)
Classics (A&S)
Classical Humanities (A&S)
Communication Arts (A&S)
Economics (A&S)

English (A&S)
French (A&S)
History (A&S)
International Affairs (A&S)
Music (A&S)
Philosophy (A&S)
Political Science (A&S)
Sociology (A&S)
Spanish (A&S)
Theatre Arts (A&S)
Theology (A&S)

BACHELOR OF SCIENCE

Applied Biology:
Forestry (A&S)
Environmental Management
(A&S; both in cooperation
with Duke University)
Applied Chemistry/Engineering (A&S)
Applied Physics/Engineering (A&S)
(both in cooperation
with University of
Cincinnati)
Biology (A&S)
Chemistry (A&S)
Chemical Science (A&S)
Computer Science (A&S)
Criminal Justice (CPS)
Elementary Education (CPS)
Mathematics (A&S)
Medical Technology (A&S)
Montessori Education:
Pre-primary (CPS)
Elementary (CPS)
Music Education (A&S)
Natural Sciences:
Premedical (A&S)
Pre dental (A&S)
Nuclear Medical Technology (A&S)
Physical Education & Health (CPS)
Physics (A&S)

Undergraduate Degree Programs

Psychology (A&S)
Spanish (A&S)
Teaching of Biology (A&S)

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Accounting (CBA)
Economics (CBA)
Finance (CBA)
General Business (CBA)
Industrial Relations (CBA)
Information Systems (CBA)
Management (CBA)
Marketing (CBA)

BACHELOR OF FINE ARTS (A&S)

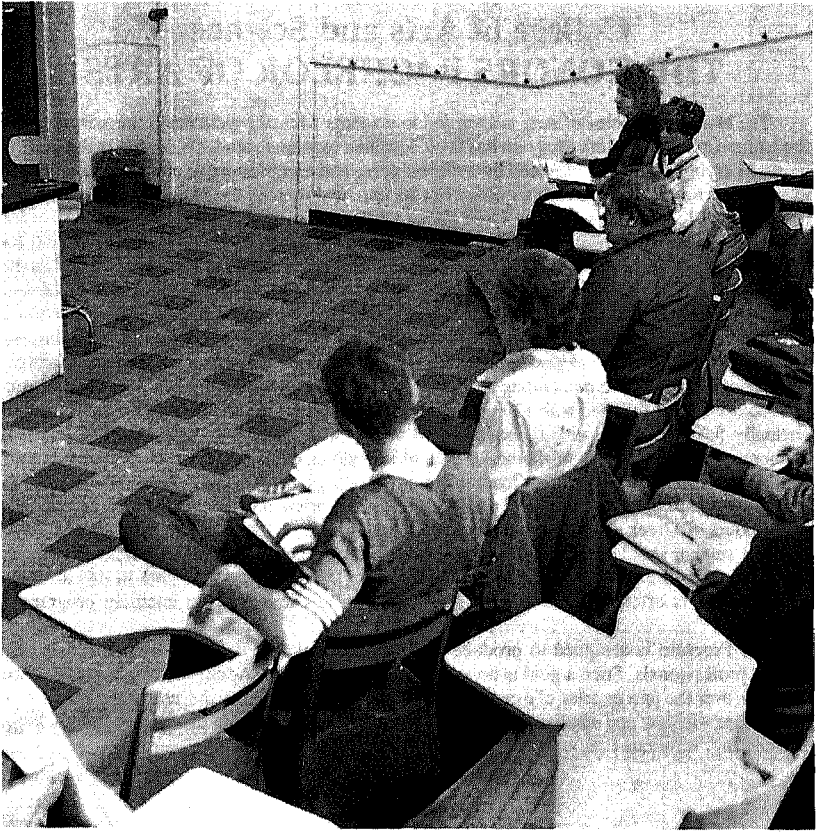
BACHELOR OF SCIENCE IN NURSING (CPS)

(Degree completion program for
Registered Nurses)

BACHELOR OF SCIENCE IN SOCIAL WORK (CPS)

SPECIAL PROGRAMS

Prepharmacy (two-year) (A&S)
Honors AB (A&S)
University Scholars (A&S,CBA,CPS)
Business Option (A&S,CPS)
Humanities (A&S;DCE)
General Studies (CPS,DCE)
Social Studies (A&S,DCE)
Secondary Education (A&S,CPS,CBA)
Special Education Certification
Educable Mentally Retarded (CPS)
Learning and Behavior Disorders
(CPS)
Moderately, Severely and
Profoundly Retarded (CPS)



Degree Programs

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 6 hours of mathematics should include calculus; the science course normally should be General Chemistry, or General Biology-Zoology, or University Physics; a total of 21 hours of philosophy is required; and the special classical orientation of this Program is provided by 21 hours of Greek, 21 hours of Latin, and 6 hours of the History of Classical Literature.

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

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

Honors Bachelor of Arts

Recommended Sequence of Program

First Semester Sem. Hrs. Second Semester Sem. Hrs.

Freshman Year

EN 115 - Rhetoric	3	EN 116 - Narrative	3
GK 111 - Elem Greek I or		GK 112 - Elem Greek II or	
GK 121 - Intro to Greek Lit*	3	GK - Elective	3
HS** - Elective	3	HS** - Elective	3
LT 221 - Cicero	3	LT 153 - Vergil: Aeneid VII-XII	3
MT Elective***	3	MT Elective***	3
Total	15	Total	15

Sophomore Year

Science Elective***	4	Science Elective***	4
GK 121 - Intro to Greek Lit or		GK 260 - Sophocles	3
GK - Elective	3	LT 312 - Tacitus: Annals	3
LT 231 - Horace: Odes	3	Philosophy Area II	3
PL 100 - Ethics as Intro to Phil.	3	Theology Elective	3
TH 111 - Intro to Theology	3	Elective @	3
Elective @	3	Total	19
Total	19	Total	19

Junior Year

Literature Elective (Eng.)	3	Literature Elective (Eng.)	3
GK 331 - Thucydides	3	GK 371 - Plato: Republic	3
EC or HS - Elective	3	EC or HS - Elective	3
LT 214 - Latin Prose Style	3	LT 391 - Lucretius	3
PL 290 - Theory of Knowledge	3	Philosophy Area IV	3
Theology Elective	3	Electives @	6
Elective @	3	Total	15-21
Total	15-21	Total	15-21

Senior Year

GK 251 - Homer: Iliad	3	LT 388 - Hist of Latin Lit	3
LT 356 - Roman Satire	3	GK 388 - Hist of Greek Lit	3
Philosophy Area IV Elective	3	Philosophy Area IV Electives	6
Theology Elective	3	Electives @	9
Electives	9	Total	12-21
Total	12-21	Total	12-21

* Students having two units of high school Greek or its equivalent will register for GK 121 in the first semester and GK Electives in the two following semesters. Others will take GK 111, GK 112, and GK 121 in sequence.

** 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 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.

University Scholars receive, according to their major area of study, an AB (Scholars Curriculum), a BS (Scholars Curriculum), or a BSBA (Scholars Curriculum).

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

A summary of the Scholars' Program follows:

1. *Mathematics and Natural Science*

Scholars must complete two courses of Honors Mathematics, or calculus for science majors. Students in Natural Science may take MT 156 (Statistics) in place of the second calculus course. Scholars may participate either in one of the introductory courses in the natural sciences offered for majors in science (General Biology with labs, General Chemistry with labs, or University Physics with labs); or, if they are not science majors they may take two courses in Honors Science.

2. *Social Science*

To fulfill the social science requirement, Scholars must complete at least one introductory course in history, which must be an Honors course, and at least one introductory course in economics, which must be an Honors course. Scholars in the College of Arts and Sciences are urged to complete both introductory economics courses, but may substitute another social science core course (or Scholars' seminar in a social science) for the second economics course. Scholars in the College of Business Administration are urged to complete the second introductory history course, but may substitute any social science core course (or Scholars' seminar in a social science) for the second history course.

3. *Humanities*

Scholars must take two Honors courses in the Humanities: Rhetoric and Narrative in the English Department.

4. *Philosophy*

Scholars must take two Honors courses in philosophy.

5. *Theology*

Scholars must take two Honors courses in theology.

6. *Seminars*

All Scholars must participate, during their junior and senior years, in no less than 3 Honors seminars. Seminars in core subjects may be used to fulfill a student's core requirements.

7. *Foreign language*

The foreign language requirements of students in the Scholars' Program are determined by their school or program.

A non-science Scholars' course is organized to provide extensive opportunity for students to discuss the subject with the teacher and with each other. Besides that, it must emphasize at least two of these three elements: 1) writing, 2) bibliographic instruction and research, 3) use of primary sources.

A science course for Scholars must promote: 1) interrelation and integration within a body of scientific knowledge, 2) the laboratory mode of observation discovery, 3) written communication appropriate to the field.

The seminar is a form of instruction which has as its goal the preparation and delivery of papers by students. The students' papers are discussed by the class. This procedure normally implies bibliographic instruction and development of research skills, and it clearly requires guided discussion and the development of verbal and critical skills. Scholars' seminars will include a formal evaluation to demonstrate achievement in these areas. Not all seminars offered at Xavier University are approved for Scholars.

Prelegal Study

The basic criteria for acceptance into law school are the grade point average acquired 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 Prelaw advisors. The importance attached to letters of recommendation, job experience, and extracurricular or community activities varies greatly among law schools. The competition for admission to law schools today is intense and not all law school graduates are finding law-related jobs. The law school applicant should strive to accumulate a very adequate background.

American law schools prescribe neither specific courses nor a specific major for prelaw study. They do insist on a broad program of high quality in liberal arts. The degree program should educate the students to assimilate difficult documents and to interpret factual data, to think logically and creatively, to express themselves well orally and in writing, and to acquire a critical understanding of the human institutions and values with which the law deals. While there is no such thing as a prelaw program, it does not follow that all courses or majors are of equal value for the study of law. Desirable preparation for law school includes the University Scholars Program or the Honors AB Program. Some subjects (not necessarily majors) to which law schools attach special importance are English, government, economics, history, mathematics, modern or ancient foreign language, logic, science 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 chair and one of the Prelaw Advisors. They are also encouraged to join the St. Thomas More Prelaw Society.

Peace Studies Concentration

The Peace Studies Concentration is a fifteen-hour interdisciplinary program available to all Xavier undergraduates and compatible with any major. It is designed to examine the problem of peace in the contemporary world.

Among the areas which may be investigated are: the nature of aggression; analysis of war and of conditions or policies bearing on war; ethical and moral issues concerning war and peace; social and economic justice as they are directly related to issues of war and peace; strategies of world order; peaceful settlement of political disputes; philosophies and strategies of non-violence.

Successful completion of the program will be noted on the student's official transcript at the student's request. Further information concerning the Peace Studies Concentration can be obtained from any member of the Peace Studies Committee.



THE BACHELOR OF ARTS (Art)

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

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

- | | |
|-------------|---------------|
| Ceramics | Drawing |
| Fibers | Graphics |
| Painting | Printmaking |
| Sculpture | Art Education |
| Art History | Art Therapy |

These concentrations are interdependent; the student is not made to conform to the program, the program is made to meet the needs of the student.*

Requirements for a Major in Art

The AB Degree requires:

- Forty semester hours in art with thirty well distributed in studio courses, ten in history of art courses. Participation in Freshman Seminar, Senior Seminar, and Criticism is mandatory and may be used to satisfy part of the History of Art requirements.
- Extended experience (minimum of two semesters) in one area leading to a senior concentration and exhibition if concentration is in a studio area.

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

* Due to a firm commitment to the liberal arts, the Department is eager to assist the student in planning an integrated program involving the other disciplines included in the core curriculum of the University.

The relationship of the **Art Education concentration to the Xavier University core** is as follows:

Art Major	40 hrs. (50 sem. hrs. for K-12)@
	(30 sem. hrs. for 7-12)
Education certification	30 hrs.
Philosophy	12 hrs.
Theology	12 hrs.
Humanities Literature	6 hrs.
Humanities Elective	included in major
Mathematics*	6 hrs.
Science	6 hrs.
Social Science	included in certification
History	6 hrs.
Foreign Language +	12 hrs.
English Composition	3 hrs.

Total Sem. Hrs. 133-143

The relationship of the **other concentrations to the Xavier University core** is as follows:

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

Total Sem. Hrs. 120

@ May require more than four years.

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

* See curricular requirements.

THE BACHELOR OF FINE ARTS (Art)

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

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

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

BFA Degree

AR 100 - Seminar 1 hr.	BFA in relation to the Xavier Core
AR 101 - Design 2 hrs.	Art Major 70 hrs.
AR 102 - Drawing 3 hrs.	Philosophy 12 hrs.
AR 105 - Sculpture 3 hrs.	Theology 12 hrs.
Major Studio Area (includes	Humanities Literature 6 hrs.
senior concentration) 15 hrs.	Mathematics* 6 hrs.
Allied Studio Area 12 hrs.	Science 6 hrs.
History of Art 12 hrs.	Social Science 6 hrs.
Art Electives 18 hrs.	History 6 hrs.
AR 440 - Criticism 2 hrs.	Foreign Language+ 12 hrs.
AR 441 - Seminar 2 hrs.	English Composition 3 hrs.
Total Sem. Hrs. 70	Total Sem. Hrs. 139

* See curricular requirements page 37.

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

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

The sophomore portfolio and senior exhibition requirements are the same as listed for the AB degree with the exception that an additional portfolio for admission into the BFA program must be presented one semester after acceptance into the department.

A recommended sequence of program is available. Please direct requests to the Department Chair.

AB (Art)
Concentrations +
Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
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Freshman Year

AR 100 - Seminar	1	AR 105 - Sculpture	3
AR 101 - Design	2	AR - Elective	3
AR - Elective	3	Humanities Elective (Lit.)	3
EN 101 - English Composition	3	Philosophy/Theology Elective	3
Philosophy/Theology Elective	3	Social Science/History Elective	3
Social Science/History Elective	3		
Total	15	Total	15

Sophomore Year

AR - Elective	3	AR - Elective	3
Elective	3	Elective	3
Foreign Language	3	Foreign Language	3
Philosophy/Theology Elective	3	Philosophy/Theology Elective	3
Science/Mathematics Elective	3	Science/Mathematics Elective	3
Total	15	Total	15

Junior Year

AR - Elective	3	AR - Elective	3
AR - History	3	Elective	3
Foreign Language	3	Foreign Language	3
Social Science/History Elective	3	Social Science/History Elective	3
Science/Mathematics Elective	3	Science/Mathematics Elective	3
Philosophy/Theology Elective	3	Philosophy/Theology Elective	3
Total	18	Total	18

Senior Year

AR 440 - Criticism	2	Elective	3
AR 441 - Seminar	2	AR - History	3
AR 442 - Concentration	6	Humanities Elective (Lit.)	3
Philosophy/Theology Elective	3	Philosophy/Theology Elective	3
Total	13	Total	12

+ A recommended sequence of program is available for each of the concentrations. Please direct requests to Department Chair.

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.

The biology program contributes to liberal arts education and provides preparation 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 complete General Biology, General Zoology, General Botany, Bacteriology, Genetics, Vertebrate Physiology, and Methods of Biological Research (25 hours) and remaining hours (11) of BL electives. Recommended electives for students anticipating entrance to medical or dental schools include General Embryology, Comparative Anatomy of Vertebrates, General Histology and Biochemistry.

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

Majors must complete two semesters of physics, four of chemistry (through organic), and two of mathematics (statistics and calculus). The Chair advises students as to course sequence and prerequisites for courses.

BS (Biology)

Recommended Sequence of Program

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
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Freshman Year@

BL 110 - Gen. Biology	2	BL 112 - Gen. Zoology	2
BL 111 - Gen. Biology Lab	2	BL 113 - Gen. Zoology Lab	2
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	2
MT 150 - Elements of Calculus I	3	MT 156 - General Statistics	3
Foreign Language@	3	Foreign Language	3
		EN 101 - English Composition	3
Total	14	Total	18

Sophomore Year

BL 200 - General Botany	2	Biology Elective	2-4
BL 201 - General Botany Lab	2	PH 106 - College Physics II	3
PH 104 - College Physics I	3	PH 107 - Intro. Physics Lab II	1
PH 105 - Intro. Physics Lab I	1	Foreign Language	3
Foreign Language	3	PL 100 - Ethics as Intro. to Phil.	3
TH 111 - Intro. to Theology	3	Humanities Elective (Lit)	3
Humanities Elective (Lit)	3		
Total	17	Total	15-17

Junior Year

BL 360-361 - Vert. Physiology or Biology Elective	2-4	BL 230 - Genetics or Biology Elective	2-4
CH 240 - Organic Chemistry I	3	CH 242 - Organic Chemistry II	3
CH 241 - Organic Chemistry I Lab	1	CH 243 - Organic Chemistry II Lab	1
History I (100-Level Elective)**	3	History II (100-Level Elective)**	3
Philosophy Area II	3	PL 290 - Theory of Knowledge	3
Humanities Elective	3	Theology Elective	3
Total	15-17	Total	15-17

Senior Year

BL - Biology Electives	4-8	BL 212-213 - Bacteriology	4
BL 398 - Methods of Biol. Research I	1	BL - Electives	2-4
Theology Elective	3	BL 399 - Methods of Biol Research II	1
Social Science Elective	3	Philosophy Area IV	3
Humanities Elective	3	Theology Elective	3
		Social Science Elective	3
Total	14-18	Total	16-18

@ Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshman year and the start of language studies postponed to the sophomore or junior years. See Language requirements, page 38.

** See Curricular Requirements, page 37.

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 290 (Chemical Literature) fits the student to prepare his thesis and amounts to a beginning course in research.

Departmental requirements for a major include:

1. Satisfactory completion of CH 110, 111, 112, 115, 230, 232, 235, 237, 239, 240, 241, 242, 243, 260, 261, 280, 281, 290, 330, 349, 390, and electives.
2. A senior research project culminating in a written thesis, CH 398, 399.
3. The requirements in the major total 44 semester hours.
4. The requirements in mathematics and computer science total 12 semester hours: MT 170, 171, 162, 221 and CS 124.
5. University Physics (PH 108, 105, 110, and 107) is required.

Xavier University is approved by the American Chemical Society for its training in chemistry, and students completing the approved program of studies are graduated as "certified" chemistry majors.

BS (Chemistry)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

CH 110 - General Chemistry I 3	CH 112 - General Chemistry II 3
CH 111 - General Chemistry I Lab 1	CH 115 - General Chemistry II Lab 1
MT 170 - Calculus I# 3	MT 171 - Calculus II 3
TH 111 - Intro. to Theology 3	PL 100 - Ethics as Intro. to Phil. 3
EN 101 - English Composition 3	Foreign Language 3
Foreign Language@ 3	CS 124 - "BASIC" Programming 1
	MT 162 - Solid Anal. Geom. 2
Total 16	Total 16

Sophomore 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
CH 235 - Physical Anal. I Lab 1	CH 237 - Physical Anal. II Lab 1
MT 221 - Calculus III 3	PH 110 - Univ. Physics II 3
PH 108 - Univ. Physics I 3	PH 107 - Physics Lab II 1
PH 105 - Physics Lab I 1	Foreign Language 3
Theology Elective 3	Philosophy Area II 3
Foreign Language 3	Humanities Elective (Lit) 3
Total 18	Total 18

Junior Year

CH 230 - Physical Chemistry I 3	CH 281 - Instrumental Anal. Lab 2
CH 239 - Physical Anal. III Lab 1	CH 232 - Physical Chemistry II 2
CH 280 - Instrumental Analysis 3	CH 330 - Quantum Chemistry 2
Theology Elective 3	CH 398 - Chemical Research I 1
CH 290 - Chemical Literature 1	CH 390 - Seminar 0
CH 390 - Seminar 0	Humanities Elective (Lit) 3
Social Science Elective 3	PL 290 - Theory of Knowledge 3
History I (100-level Elective)*** 3	History II (100-level Elective)*** 3
Total 17	Total 16

Senior Year

CH 349 - Organic Synthesis/Analysis 3	Chemistry Elective** 2-3
CH 260 - Inorganic Chemistry 3	CH 399 - Chemical Research II 1
Theology Elective 3	CH 261 - Inorganic Chemistry Lab 1
Humanities Elective 3	CH 390 - Seminar 0
Social Science Elective 3	Chemistry Elective 2-3
CH 390 - Seminar 0	Humanities Elective 3
	Philosophy Area IV 3
Total 15	Total 12-14

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

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

*** See Curricular Requirements, page 37.

If determined necessary by the Mathematics Department, students registered for MT 170 may be required to complete MT 161, Plane Analytic Geometry, 1 credit hour.

THE BACHELOR OF SCIENCE (Chemical Science)

In addition to the BS (Chemistry) program the Department of Chemistry offers a program which leads to the degree BS (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 BS (Chemistry) program. The hours thus released are made available as free elective hours which can then 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 the permission of the Chair of the Department.

The degree program requires 31-32 semester hours in the major. College Physics, (PH 104, 105, 106, 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.

BS (Chemical Science)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
CH 110 - General Chemistry I	3	CH 112 - General Chemistry II	3
CH 111 - General Chemistry I Lab	1	CH 113 - General Chemistry II Lab	2
History I (100-level Elective)**	3	History II (100-level Elective)**	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
EN 101 - English Composition	3	Foreign Language	3
Foreign Language**	3	MT 149 - Elementary Functions	3
Total	16	Total	17
Sophomore Year			
CH 120 - Prin. of Phys. Chem.	3	PH 106 - College Physics II	3
CH 151 - Analytical Chemistry	1	PH 107 - Intro. Physics Lab II	1
PH 104 - College Physics I	3	Philosophy Area II	3
PH 105 - Intro. Physics Lab I	1	Social Science Elective	3
MT 150 - Elements of Calculus I	3	Foreign Language	3
Foreign Language	3		
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 290 - Chemical Literature	1	PL 290 - Theory of Knowledge	3
Total	14	Total	16
Senior Year			
CH 280 - Instrumental Analysis	3	CH 281 - Instrumental Analysis Lab	2
Theology Elective	3	Chemistry Elective	2-3
Philosophy Area IV	3	Electives	6
Humanities Elective	3	Humanities Elective	3
Chemistry Elective	2-3	Social Science Elective	3
CH 300 - Seminar	0	CH 300 - Seminar	0
Total	14-15	Total	16-17

** See Curricular Requirements, pages 37-38.

THE BACHELOR OF ARTS (Classics)

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

Students are expected to complete 6-12 lower division hours in Latin or Greek (the amount of lower division work depending on whether they have had two or more years of that language in high school) plus 21 hours of upper division work. They are expected also to complete 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.

AB (Classics)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 101 - English Composition	3	History II (100-level Elective)**	3
History I (100-level Elective)**	3	LT 121 - Vergil I-VI	3
LT 112 - Elementary Latin II	3	MT - elective	3
MT - elective**	3	ML or GK	3
ML or GK	3	PL 100 - Ethics as Intro. to Phil.	3
	<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>		<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>
Total	15	Total	15
Sophomore Year			
Humanities Elective	3	Humanities Elective	3
LT 122 - Selected Latin Readings	3	LT - Elective	3
ML or GK	3	ML or GK	3
Science elective	3	Science elective	3
TH 111 - Intro. to Theology	3	Philosophy Area II	3
	<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>		<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>
Total	15	Total	15
Junior Year			
Electives	6	Elective	3
LT - Elective	3	LT - Elective	3
Social Science Elective	3	Social Science Elective	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
	<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>	Theology Elective	3
Total	15	Total	15
Senior Year			
Elective	3	Electives	9
LT - Electives	6	LT - Electives	6
Philosophy Area IV	3		
Theology Elective	3		
	<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>		<hr style="width: 50px; margin-left: auto; margin-right: 0;"/>
Total	15	Total	15

** See Curricular Requirements, page 37.

THE BACHELOR OF ARTS (Classical Humanities)

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

The student is expected to take 6 hours of Latin or Greek literature in the original language beyond the general foreign language core requirements. The foreign language requirement is fulfilled by taking 12 hours of Latin or Greek; students with two or more years of high school Latin may take 9 hours or fewer for this core requirement, dependent on a qualifying examination.

In addition, the student will complete 18 hours of the non-language classics courses offered by the department.

AB (Classical Humanities)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
LT 111, 112 or 122 or GK 111.....	3	LT 112, 121 or 123 or GK 112.....	3
History I (100-level Elective)**.....	3	History II (100-level Elective)**.....	3
MT - Elective**.....	3	MT - Elective.....	3
TH 111 - Intro. to Theology.....	3	PL 100 - Ethics as Intro. to Phil.....	3
EN 101 - English Composition.....	3	Humanities Elective (Lit.).....	3
Total	15	Total	15
Sophomore Year			
LT 122 or LT Elective or GK 121.....	3	LT Elective or GK Elective.....	3
Science Elective.....	3	Science Elective.....	3
Theology Elective.....	3	Philosophy Area II.....	3
CL - Elective.....	3	CL - Elective.....	3
Social Science Elective.....	3	Social Science Elective.....	3
Total	15	Total	15
Junior Year			
LT upper division course or Elective.....	3	LT upper division course or Elective.....	3
Theology Elective.....	3	PL 290 - Theory of Knowledge.....	3
CL - Elective.....	3	CL - Elective.....	3
Humanities Elective (Lit.).....	3	Humanities Elective.....	3
Elective.....	3	Elective.....	3
Total	15	Total	15
Senior Year			
Humanities Elective.....	3	CL - Elective.....	3
Theology Elective.....	3	Electives.....	12
Philosophy Area IV.....	3		
CL - Elective.....	3		
Elective.....	3		
Total	15	Total	15

** See Curricular Requirements, page 37.

THE BACHELOR OF ARTS (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 toward the roles they will play in society. Emphasis on basic skills in written and spoken communication permeates all CA areas of concentration: Communication-Marketing (C-MK), Film-Photography (F-Ph), 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. Proficiency in writing skills is required in all courses, and continued improvement in writing, speaking, and typing skills is expected. Students extremely weak in writing skills will be urged and may be required to take CA 206 Effective Writing.

Course Sequence for CA Areas of Concentration

First Semester

Second Semester

Freshman Year

C-MK	CA Speech Elective	CA 203 and MK 100
F-Ph	CA Speech Elective	CA 203 and CA 207
BJ	CA Speech Elective	CA 203 and CA 237
PR	CA Speech Elective	CA 203 and CA 237
R-TV	CA 203	CA 102 and CA 218

Sophomore Year

C-MK	CA 204	CA Restricted#1*
F-Ph	CA 204	CA 213
BJ	CA 219	CA 240
PR	CA 238	CA 240
R-TV	CA 219	CA 220 and CA 221

Junior Year

C-MK	MT 146 and CA Restricted #2*	MK 202
F-Ph	CA 211 and CA 212	CA 214
BJ	CA 241 and CA Elective	CA 242
PR	CA 251 and CA Elective	CA 253
R-TV	CA 222 and CA 232	CA Elective

Senior Year

C-MK	MK 250	CA or MK Elective
F-Ph	CA Elective	CA Elective
BJ	CA 243	CA Elective
PR	CA Elective	CA 254
R-TV	CA 233 and CA Elective	CA 234

* Consult Department for further details

AB (Communication Arts)

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

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
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Freshman Year

CA.....	3	CA.....	3
Foreign Language**	3	Foreign Language	3
History I (100-level Elective)**	3	History II (100-level Elective)**	3
EN 101 - English Composition	3	CA.....	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
Total		Total	
	15		15

Sophomore Year

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

Junior Year

CA.....	3	CA.....	3
CA@.....	3	Social Science Elective	3
Elective.....	3	Theology Elective	3
Social Science Elective	3	Electives	6
PL 290 - Theory of Knowledge.....	3		
Total		Total	
	15		15

Senior Year

CA@.....	3	CA@.....	3
Philosophy Area IV	3	Humanities Elective (Lit.)	3
Theology Elective	3	Theology Elective	3
Electives	6	Electives	6
Total		Total	
	15		15

** See Curricular Requirements, pages 37-38.

@ At this sign, R-TV adds a one-hour lab.

THE BACHELOR OF SCIENCE (Computer Science)

Computer technology has revolutionized society's methods for processing information and making decisions. The growth in the use of computers is encouraging even more computer usage and increasing the demand for professionals in computer science. Typical computer careers include its application in such areas as accounting, economics, engineering, law, mathematics, medicine, and the sciences. Other positions include research in computer science, computer design, computer product marketing and sales, technical writing, and teaching.

As technology progresses, so must the intelligent use of that technology. Xavier's program is designed to develop, within the framework of a liberal education, the knowledge, skills, and creative analytical ability required for a productive career in computer-related fields and for graduate work in computer science or other areas. The computer science major requires a minimum of 36 semester hours in computer science and an additional 21 semester hours in technical areas. Included in the latter are the courses in mathematics and physics. Students take University Physics without the laboratory and are required to take the upper division Electronics laboratory. Some students elect to complete a second major in mathematics or some other discipline.

Seniors must fulfill the comprehensive requirements.

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.

BS (Computer Science)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
CS 170 - Computer Science I	3	CS 171 - Computer Science II	3
MT 170 - Calculus I *	3	MT 171 - Calculus II	3
EN 101 - English Composition	3	CS 255 - Architect. & Assembler Lang.	3
History I	3	History II	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
Total	15	Total	15
Sophomore Year			
CS 303 - Numerical Methods	3	CS 325 - Data Structures	3
MT 208 - Discrete Mathematics	3	MT 246 - Statistics	3
PH 108 - University Physics I	3	PH 110 - University Physics II	3
Foreign Language I	3	Foreign Language II	3
Theology Elective	3	Philosophy Area II	3
Total	15	Total	15
Junior Year			
Humanities Elective (Lit)	3	CS 335 - Operating Systems	3
CS 355 - Compiler/Programming Language Design	3	CS 244 - Electronics II	2
PH 242 - Electronics I	2	CS 245 - Electronics Laboratory II	1
PH 243 - Electronics Laboratory I	1	Humanities Elective (Lit)	3
Foreign Language III	3	Foreign Language IV	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
Total	15	Total	15
Senior Year			
CS Elective	3	CS 390 - Seminar & Project @	3
CS Elective	3	CS Elective	3
Social Science	3	Social Science	3
Humanities Elective	3	Humanities Elective	3
Theology Elective	3	Philosophy Area IV	3
Total	15	Total	15

* If determined necessary by the Mathematics Department, students registered for MT 170 may be required to complete MT 161, Plane Analytic Geometry, 1 credit hour.

@ Students taking CS 390 should contact the director of the Computer Science Program one semester before enrolling in CS 390.

THE BACHELOR OF ARTS (Economics)

The Bachelor of Arts degree in economics is designed to offer students a broad liberal arts background and to provide a general, but thorough, understanding and appreciation of economic activity. A major in economics serves as an excellent background for a career in business or government. It is an appropriate major for law school, since many contemporary legal issues and controversies arise from problems in the economic system. Finally, the major prepares the student for graduate study of economics or business administration.

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, and points of view of professional economists. After having grasped the basic analytical tools of the profession, students analyze such topics as inflation, unemployment, international trade, managerial decision-making, and government finance.

Requirements in the major include: EC 100 Microeconomic Principles; EC 101 Macroeconomic Principles; EC 200 Microeconomic Analysis; EC 201 Macroeconomic Analysis; and 18 hours of economics electives, * at least 6 ** of which must be at the 300 level.

* Up to 6 hours of industrial relations courses may be substituted for up to 6 hours of economics courses, except IR 320, IR 321, and IR 395.

** EC 335 Public Finance and/or EC 345 International Economics must be included.

AB (Economics)

Recommended Sequence of Program

First Semester Sem. Hrs. Second Semester Sem. Hrs.

Freshman Year

History I (100-level Elective)*	3	History II (100-level Elective)*	3
Foreign Language*	3	Foreign Language*	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
EN 101 - English Composition	3	Humanities Elective (Lit.)	3
MT 150 - Elements of Calculus I**	3	MT 156 - General Statistics	3
<hr/>		<hr/>	
Total	15	Total	15

Sophomore Year

EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic 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
<hr/>		<hr/>	
Total	15	Total	15

Junior Year

EC 200 - Microeconomic Analysis	3	EC 201 - Macroeconomic Analysis	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
Humanities Elective (Lit.)	3	Humanities Elective	3
Economics Elective***	3	Economics Elective***	3
Elective	3	Elective	3
<hr/>		<hr/>	
Total	15	Total	15

Senior Year

Economics Electives***	6	Economics Electives***	6
Elective	3	Electives	6
Philosophy Area IV	3	Humanities Elective	3
Theology Elective	3		
<hr/>		<hr/>	
Total	15	Total	15

* See Curricular Requirements, pages 37-38.

** Some Students may find it necessary to use one of their free electives to take MT 149, Elementary Functions prior to taking MT 150.

*** See requirements for concentration on previous page.

THE BACHELOR OF ARTS (English)

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

English majors are required to take EN 115, 116, and 221. Additional requirements are one course in Shakespeare, one upper-level course in British literature, one upper-level course in American literature, one upper-level writing course (EN 200, 201, 209, 210, 211 or 212), and four English electives. In addition, all senior majors are required to complete a Senior Seminar (either EN 398 or EN 399).

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

AB (English)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 115 - Rhetoric+	3	EN 116 - Narrative	3
History I (100-level elective)**	3	History II (100-level Elective)**	3
Foreign Language**	3	Foreign Language	3
Science Elective	3	Science Elective	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
	<hr/>		<hr/>
Total	15	Total	15
Sophomore Year			
EN 221 - Poetry	3	EN - Advanced Writing Elective	3
Elective	3	Elective	3
MT - Elective**	3	MT - Elective	3
Theology Elective	3	Philosophy Area II	3
Foreign Language	3	Foreign Language	3
	<hr/>		<hr/>
Total	15	Total	15
Junior Year			
EN - Shakespeare Elective	3	EN - British Lit. Elective	3
EN - American Lit Elective	3	EN - Elective	3
Humanities Elective	3	Humanities Elective	3
Theology Elective	3	PL 290 Theory of Knowledge	3
Social Science Elective	3	Social Science Elective	3
	<hr/>		<hr/>
Total	15	Total	15
Senior Year			
EN 398 or 399 - Senior Seminar	3	EN - Electives	6
EN - Elective	3	Electives	9
Philosophy Area IV	3		
Theology Elective	3		
Elective	3		
	<hr/>		<hr/>
Total	15	Total	15

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

** See Curricular Requirements, pages 37-38.

THE BACHELOR OF ARTS (History)

The Bachelor of Arts conferred on history majors requires four semesters of history at the 100-level course numbers to include a first semester (I) and a second semester (II) course in European history and HS 143-144 American Thought and Culture I & II, 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 for the major. Seminars for seniors planning graduate study in history are offered in aspects of the history of the United States, Europe, Latin America, and Asia. For course distribution requirements, consult either department advisor or Chair.

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 is satisfied by successfully completing HS 293, which includes the requirement of a directed research paper.

AB (History)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
History I (100-level European Elect)**	3	History II (100-level European Elect)	3
Foreign Language**	3	Foreign Language	3
Science Elective	3	Science Elective	3
PL 100 - Ethics as Intro. to Phil.	3	TH 111 - Intro. to Theology	3
Humanities Elective (Lit.)	3	EN 101 - English Composition	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Sophomore Year			
HS 143 - Amer. Thought & Culture I	3	HS 144 - Amer. Thought & Culture II	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
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Junior Year			
HS - Electives	6	HS - Electives	6
Humanities Elective	3	Humanities Elective	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
Social Science Elective	3	Social Science Elective	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
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		
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15

** See Curricular Requirements, pages 37-38.

+ HS 293 may be taken any time after the sophomore year.

THE BACHELOR OF ARTS (International Affairs)

The program in International Affairs is designed to equip students with a fundamental orientation in the field of international relations, to introduce the basic methods of studying international relations, and to provide training which will enable the student to make intelligent observations about international affairs. Employment opportunities are to be found in business and government. Students who complete the program will have the necessary prerequisites to enroll in graduate programs in business, law, and foreign affairs, including diplomacy.

The following six courses (18 hours) are required for the program:

EC 344	Economics of International Relations
PO 249	International Organizations
PO 374	U.S. Foreign Policy
PO 377	International Relations
PO 110	American Government
PO 376	International Law

In addition to the above courses, the student selects one of the following two fields of concentration: Business or Modern Europe (see the block schedules on the following pages).

Internship. A limited number of internships with private corporations that engage in international business or with governmental or quasi-governmental agencies will be available in the future. Students are also encouraged to seek such internships for themselves. Application to participate in an internship should be made in writing to the Program Director. The student intern must be accepted by the corporation or other agency.

All students should consult the Program Director when entering the program.

AB (International Affairs)

Field of Concentration - Business Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

EN 101 - English Composition 3	Humanities Elective (Lit) 3
Modern Language** 3	Modern Language** 3
History I** 3	History II** 3
MT 146 - Elementary Statistics 3	MT 150 - Elem. of Calculus I*** 3
TH 111 - Intro. to Theology 3	PL 100 - Ethics as Intro. to Phil. 3
Total 15	Total 15

Sophomore Year

Modern Language 3	Modern Language 3
PO 377 - International Relations 3	Philosophy Area II 3
EC 100 - Microeconomic Principles 3	EC 101 - Macroeconomic Principles 3
Theology Elective 3	PO 110 - American Government 3
Humanities Elective (Lit) 3	MK 100 - Prin. of Marketing 3
Total 15	Total 15

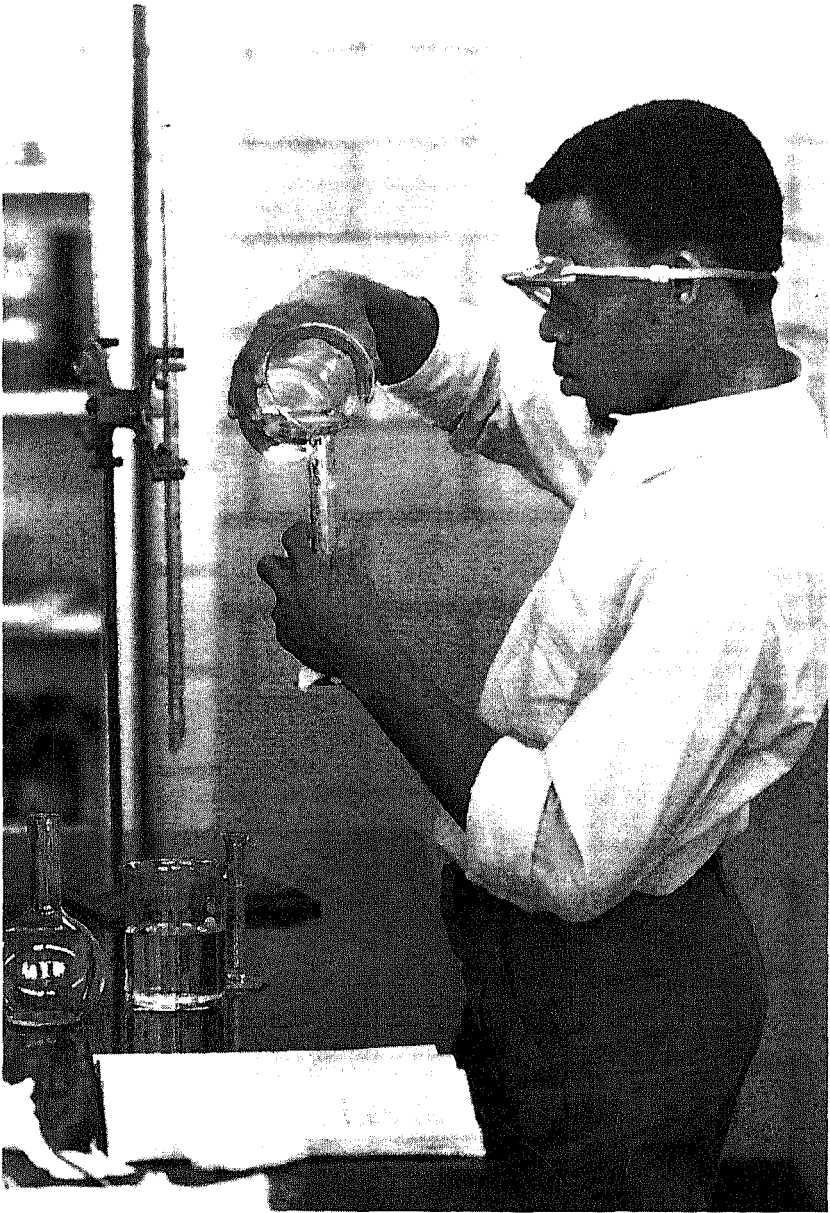
Junior Year

PO 374 - U.S. Foreign Policy 3	Humanities Elective 3
Science Elective 3	Science Elective 3
Theology Elective 3	PL 290 - Theory of Knowledge 3
AC 100 - Prin. of Accounting I 3	AC 101 - Prin. of Accounting II 3
Business Elective 3	Business Elective 3
Total 15	Total 15

Senior Year

EC 344 - Economics of Inter. Relat. 3	PO 376 - International Law 3
Humanities Elective 3	Philosophy Area IV 3
PO 249 - Inter. Organizations 3	Business Elective 3
Theology Elective 3	Elective 3
FI 255 - Business Finance 3	PO 396 - Internship @ 3
Total 15	Total 15

** History and Modern Language should be in one geographic area.
 *** Some students may find it necessary to use one of their free electives to take MT 149, Elementary Functions prior to taking MT 150, Elements of Calculus I.
 @ See requirements for concentration on previous page.



THE BACHELOR OF SCIENCE (Mathematics)

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

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

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

Courses in analytic geometry, calculus, linear algebra, discrete mathematics, and computer science are required of all majors in mathematics. In addition, each student must complete an advanced course in algebra (either MT 240 Linear Algebra or MT 250 Abstract Algebra) and an advanced course in analysis (either MT 270 Real Analysis or MT 280 Complex Analysis).

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.

BS (Mathematics)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
MT 170 - Calculus I*	3	MT 162 - Solid Analytic Geometry	2
CS 170 - Computer Science I	3	MT 171 - Calculus II	3
Foreign Language I	3	Foreign Language II	3
History I	3	History II	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
		EN 101 - English Composition	3
Total	15	Total	17
Sophomore Year			
MT 208 - Discrete Mathematics	3	MT 204 - Elementary Linear Algebra	3
MT 221 - Calculus III	3	MT 216 - Series & Differential Equations	3
Foreign Language III	3	Foreign Language IV	3
Science Elective	3	Science Elective	3
Theology Elective	3	Philosophy Area II	3
Total	15	Total	15
Junior Year			
MT Elective	3	MT Elective	3
Humanities Elective (Lit)	3	Humanities Elective (Lit)	3
Social Science Elective	3	Social Science Elective	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
Elective	3	Elective	3
Total	15	Total	15
Senior Year			
MT 240 or 280	3	MT 250 or 270	3
MT Elective	3	MT Elective	3
Humanities Elective	3	Humanities Elective	3
Theology Elective	3	Philosophy Area IV	3
Elective	3	Elective	3
Total	15	Total	15

* If determined necessary by the Mathematics Department, students registered for MT 170 may be required to complete MT 161 Plane Analytic Geometry, 1 credit hour.

THE BACHELOR OF SCIENCE (Medical Technology)

The curriculum which leads to the BS (Medical Technology) degree consists of three years of undergraduate study at Xavier University and the senior year at a NAACLS* accredited School of Medical Technology affiliated with Xavier University. Xavier University is affiliated with the following hospital-based programs: The Christ Hospital, Cincinnati; Mercy Hospital North, Hamilton, OH; Providence Hospital Cincinnati; St Elizabeth Medical Center, Covington, KY; University Hospital, Cincinnati.

During the senior year, the student registers at Xavier University for the second summer term and for the fall and spring semesters. A \$25.00 fee is payable at each registration.

All requirements of the College of Arts and Sciences' core curriculum are fulfilled in the first six semesters. The year of professional study at the hospital-based program consists of the following courses: Clinical Chemistry, Clinical Microscopy, Diagnostic Parasitology, Hematology, Clinical Immunology, Immunohematology, Medical Microbiology, Medical Mycology. After successful completion of the program of professional study, the student is awarded the Bachelor of Science by the University, and is then eligible to take one of the certification examinations. Certification examinations are administered by the Board of Registry, American Society of Clinical Pathologists, and by the National Certification Agency for Medical Laboratory Personnel.

A student may also elect to complete the Bachelor of Science degree in Biology or Natural Sciences, then apply to any hospital-based program in Medical Technology accredited by NAACLS.

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

*National Accrediting Agency for Clinical Laboratory Sciences.

BS (Medical Technology)

Recommended Sequence of Program

First Semester Sem. Hrs. Second Semester Sem. Hrs.

Freshman Year

BL 110 - Gen. Biology	2	BL 112 - Gen. Zoology	2
BL 111 - Gen. Biology Lab	2	BL 113 - Gen. Zoology Lab	2
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	2
Mathematics	3	Mathematics	3
EN 101 - English Composition	3	TH 111 - Intro. to Theology	3
Total	14	Total	15

Sophomore Year

CH 240-241 - Organic Chemistry I or	4	CH 242-243 - Organic Chemistry II or	4
CH 202-203 - Organic Chemistry	4	CH 204-205 - Physiol. Chemistry	4
PL 100 - Ethics as Intro. to Phil.	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
Total	14	Humanities Elective (Lit.)	3
		Total	17

Junior Year

BL 360 - Vert. Physiology	2	BL 212 - Bacteriology	2
BL 361 - Vert. Physiology Lab	2	BL 213 - Bacteriology Lab	2
CH 151 - Analytical Chemistry	1	BL 222 - Immunology	2
PL 290 - Theory of Knowledge	3	Philosophy Area IV	3
Humanities Elective (Lit.)	3	Theology Elective	3
Humanities Elective	3	Humanities Elective	3
Social Science Elective	3	Social Science Elective	3
Total	17	Total	18

Senior Year

During the junior year the student must apply and be accepted for admission by one of the affiliated programs in Medical Technology. Xavier University does not guarantee acceptance in one of these programs. Placement is based on open competition with students from other universities and colleges. The BS (Medical Technology) degree will be awarded upon satisfactory completion of the fourth year (12 months) of study at an accredited School of Medical Technology administered by a hospital and approved by Xavier University. During this year the student registers at Xavier University for the second summer session, the fall semester, and spring semester. (\$25 fee payable each registration.)

** See Curricular Requirements, page 37.

If a student is unable to enter a program of Medical Technology at a hospital, arrangements should be made with the chair 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 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 the student is in daily attendance on a 40-hour week basis to pursue a program of lecture courses and clinical training. All courses in the clinical year are carried out entirely in the hospital environment to make maximum use of student's time. They emphasize the relevancy of lecture presentation in day-to-day work and more completely integrate the entire program for the student. The entire program has been structured to exceed all requirements set forth by the Committee on Allied Health Education and Accreditation. Students completing the program are thus eligible to take the examination to become Board Certified Nuclear Medical Technologists.

@ 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.

BS (Nuclear Medical Technology)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
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Freshman Year

BL 106 - Anat. & Physio. Lec I	2	BL 108 - Anat. & Physio. Lec II	2
BL 107 - Anat. & Physio. Lab I	1	BL 109 - Anat. & Physio. Lab II	1
CH 110 - Gen. Chemistry I	3	CH 112 - Gen. Chemistry II	3
CH 111 - Gen. Chemistry I Lab	1	CH 115 - Gen. Chemistry II Lab	1
MT 146 - Statistics	3	MT 149 - Elementary Functions	3
EN 101 - English Composition	3	CA 101 - Oral Communications	3
PS 101 - Gen. Psychology	3	SO 101 - Intro. to Sociology	3
Total		Total	
	16		16

Students wishing to do an Associate Degree must complete the first year plus PH 104, 105, 106, 107, TH 111, and PL 100.

Sophomore Year

CH 202 - Organic Chem. I	3	CH 204 - Organic Chem. II	3
CH 203 - Organic Chem. I Lab	1	CH 205 - Organic Chem. II Lab	1
PH 104 - College Physics I	3	PH 106 - College Physics II	3
PH 105 - College Physics Lab I	1	PH 107 - College Physics Lab II	1
History I (100-level Elective)**	3	History II (100-level Elective)**	3
PL 100 - Ethics as Intro. to Phil.	3	Philosophy Area II	3
TH 111 - Intro. to Theology	3		
Total		Total	
	17		14

Junior Year

BL 360 - Vertebrate Phys.	3	BL 210 - Microbiology	3
BL 361 - Vertebrate Phys. Lab	1	BL 211 - Microbiology Lab	1
CH 151 - Analytical Chemistry	1	BL 222 - Immunology	2
Lit. Elective	3	Humanities Elective	3
PL290 - Theory of Knowledge	3	Philosophy Area IV	3
Theology Elective	3	Lit. Elective	3
Total		Total	
	14		15

Senior Year

The fourth year will be spent in a 12-month internship at an affiliated hospital.

The Clinical Year Program courses include: Fundamentals of Atomic and Nuclear Physics, Basic Radiation instrumentation, In-vivo instrumentation, Radiopharmaceuticals, Imaging Modalities, Radiobiology and Radiodosimetry, Radiation Safety, and Clinical Practicum.

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

** See Curricular Requirements, page 37

@ See Program Director for requirements

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 must take 12 semester hours beginning with the 111 (Elementary I) course. For those who have studied a modern language in high school, a Proficiency Test is administered. By taking this 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 of Arts Degree in Secondary Education. Concentrations are available in French and Spanish.
5. A Master's Degree in Education. Concentrations are available to MEd candidates in French and Spanish.
6. Electives. Most upper division courses in modern languages fulfill elective obligations in the humanities. All such courses may also be used as free electives.
7. To obtain an undergraduate major in French or Spanish with a Business Option.

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

Requirements for modern language majors:

All majors in French and Spanish must complete 27 hours of upper division courses.

French majors must include: FR 200, 202 or 203.

Spanish majors must include: SP 200, 201, 202 or 203.

During the final semester before graduation, all majors are required to take a senior comprehensive examination in the language of the major.

AB (Modern Languages)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
History I (100-level Elective)**	3	History II (100-level Elective)**	3
ML 111**	3	ML 112	3
Science Elective	3	Science Elective	3
EN 101 - English Composition	3	PL 100 - Ethics as Intro. to Phil.	3
MT - Elective**	3	MT - Elective	3
Total	15	Total	15
Sophomore Year			
Social Science Elective	3	Social Science Elective	3
TH 111 - Intro. to Theology	3	Humanities Elective (Lit.)	3
Elective	3	ML 122	3
ML 121	3	Theology Elective	3
Philosophy Area II	3	Elective	3
Total	15	Total	15
Junior Year			
Humanities Elective (Lit.)	3	Humanities Elective	3
Elective	3	ML - SP Electives; or	
ML - SP 200, SP Elective or		FR Electives	6
FR 200, FR Elective	6	PL 290 - Theory of Knowledge	3
Theology Elective	3	Elective	3
Total	15	Total	15
Senior Year			
ML - SP Electives; or		ML - SP Electives; or	
FR Electives	9	FR Electives	6
Theology Elective	3	Philosophy Area IV	3
Humanities Elective	3	Electives	6
Total	15	Total	15

** See Curricular Requirements, pages 37-38.

AB (Modern Languages with a Business Option)

Students follow the above schedule. However, they must also take Principles of Accounting, Principles of Marketing, Microeconomic Principles, Macroeconomic Principles, and Business Finance as free electives. See page 114.

THE BACHELOR OF ARTS (Music) THE BACHELOR OF SCIENCE (Music Education)

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

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

Students pursuing the Bachelor of Science degree in music education must complete fifty-two (52) hours in music and related music education courses. Required courses include: MU 122, 201-202, 221-222, 301-302, 304, 310-311, 324-325, 326, 327, and 328. In addition, students are required to take a minimum of eight hours in applied music and to participate in an ensemble for four semesters. For required education courses, see Teacher Certification on page 140.

All music and music education majors must pass a piano proficiency examination before the senior year. During the senior year, music and music education majors are required to present a recital or write a thesis in major area of concentration.

Students are admitted to the degree programs based upon their musicality and musical literacy rather than on performance accomplishments. Musical background and proficiency in an applied instrument/voice will determine placement within the Department. For a copy of Policies and Guidelines, contact the Department of Music Office.

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

AB (Music)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

EN 101 - English Composition 3	Humanities Elective (Lit.) 3
TH 111 - Intro. to Theology 3	PL 100 - Ethics as Intro. to Phil. 3
MT - Elective 3	MT - Elective 3
MU 210 - Survey of Music Lit. I 3	MU 211 - Survey of Music Lit. II 3
MU 201 - Theory I 3	MU 202 - Theory II 3
MU 150 - Applied Music 1	MU 150 - Applied Music 1
Ensemble 1	Ensemble 1
Total 17	Total 17

Sophomore Year

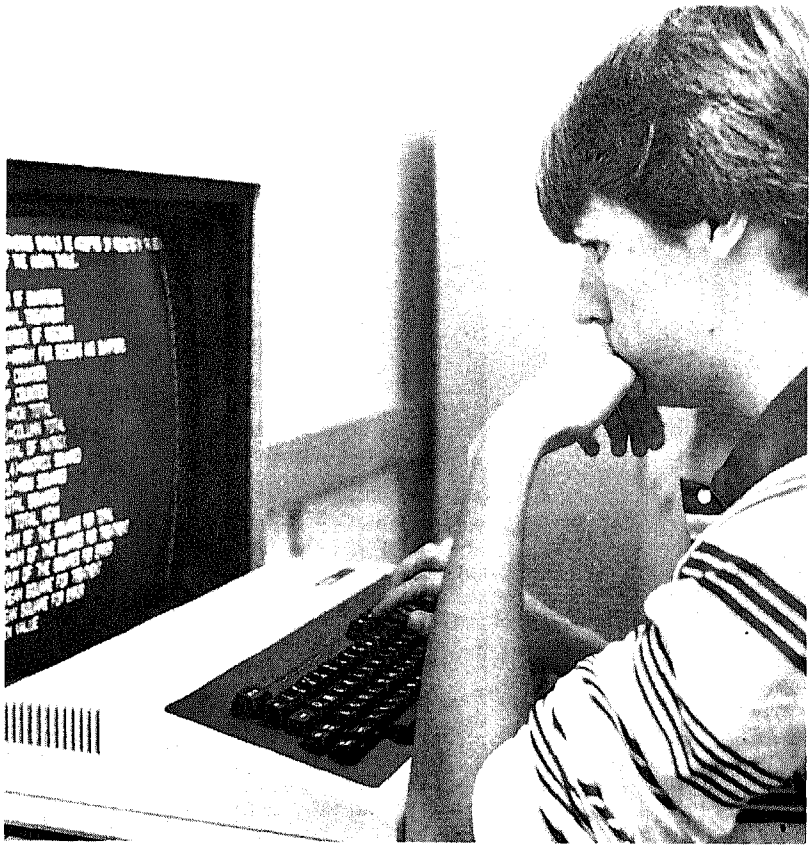
Theology Elective 3	Philosophy Area II 3
Foreign Language 3	Foreign Language 3
MU 310 - Music History I 3	MU 311 - Music History II 3
MU 150 - Applied Music 1	MU 302 - Theory IV 3
Ensemble 1	MU 150 - Applied Music 1
MU 301 - Theory III 3	Ensemble 1
Total 14	Total 14

Junior Year

Theology Elective 3	PL 290 - Theory of Knowledge 3
Foreign Language 3	Foreign Language 3
Science Elective 3	Science Elective 3
History I (100-level Elective) 3	History II (100-level Elective) 3
MU 324 - Conducting 3	MU 303 - Form and Analysis 3
MU 150 - Applied Music 1	MU 150 - Applied Music 1
Total 16	Total 16

Senior Year

Theology Elective 3	Philosophy Area IV 3
Social Science Elective 3	Social Science Elective 3
Humanities Elective (Lit.) 3	Electives 6
Elective 3	MU 150 - Applied Music 1
MU 150 - Applied Music 1	
Total 13	Total 13



BS (Music Education)

(Certification K-12)
Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
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Freshman Year

EN 101 - English Composition	3	Humanities Elective (Lit.)	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
MT - Elective	3	MT - Elective	3
History Elective	3	History Elective	3
MU 201 - Theory I	3	MU 202 - Theory II	3
MU 150 - Applied Music	1	MU 150 - Applied Music	1
Ensemble	1	Ensemble	1
Total	17	Total	17

Sophomore Year

Philosophy Area II	3	PL 290 - Theory of Knowledge	3
ED 141 - Human Growth & Dev. I	3	ED 142 - Human Growth & Dev. II	3
ED 131 - Intro. to Secondary Ed.	3	MU 302 - Theory IV (Comp.)	3
MU 301 - Theory III	3	MU 311 - History of Music II	3
MU 310 - History of Music I	3	MU 122 - Music in Elem. School	2
MU 150 - Applied Music	1	MU 150 - Applied Music	1
Ensemble	1	Ensemble	1
Total	17	Total	17

Junior Year

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

Senior Year

Theology Elective	3	ED 403 - Student Teaching	9
MU 304 - Arranging/Orchestration	3	MU 150 - Applied Music	1
MU 327 - Instr. Techniques II	2	Elective	3
Elective	3		
MU 150 - Applied Music	1		
ED 202 - School Curriculum	2		
PL Area IV	3		
Total	17	Total	13

THE BACHELOR OF ARTS (Philosophy)

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

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

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

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

Every philosophy major must take part in a philosophy seminar, which includes the requirement of a directed research paper, and must successfully complete a written and oral examination on the philosophical subjects which the student has studied.

AB (Philosophy)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
History I (100-level Elective)**	3	History II (100-level Elective)**	3
Foreign Language**	3	Foreign Language	3
Science Elective	3	Science Elective	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
Humanities Elective	3	EN 101 - English Composition	3
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Total	15	Total	15
Sophomore Year			
MT - Elective**	3	MT - Elective	3
Foreign Language	3	Foreign Language	3
PL 301 - History of Ancient Phil. or	3	PL 303 - History of Modern Phil. or	3
PL 302 - History of Medieval Phil.	3	PL 306 - Contemp. Continental Phil.	3
Theology Elective	3	Humanities Elective (Lit.)	3
Humanities Elective (Lit.)	3	Elective	3
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
Total	15	Total	15
Junior Year			
PL 311 - Symbolic Logic	3	PL 290 - Theory of Knowledge	3
Philosophy Area II	3	PL 303 - History of Modern Phil. or	3
PL 301 - History of Ancient Phil. or	3	PL 306 - Contemp. Continental Phil. or	3
PL 302 - History of Medieval Phil. or	3	Philosophy Elective	3
Philosophy Elective	3	Social Science Elective	3
Theology Elective	3	Electives	6
Social Science Elective	3		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
Total	15	Total	15
Senior Year			
PL 307 - Contemp. Brit-Amer. Phil.	3	Philosophy Electives	6
Philosophy Elective	3	Electives	9
Theology Elective	3		<hr style="width: 50%; margin: 0 auto;"/>
Humanities Elective	3		<hr style="width: 50%; margin: 0 auto;"/>
PL 398 - Senior Seminar	3		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
Total	15	Total	15

** See Curricular Requirements, pages 37-38.

THE BACHELOR OF SCIENCE (Physics)

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

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

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

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

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

The requirements for a Bachelor of Science (Physics) include 46 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.

BS (Physics)

Recommended Sequence of Program

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
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Freshman Year

PH 108 - Univ. Physics I	3	PH 110 - Univ. Physics II	3
PH 105 - Intro. Physics Lab I	1	PH 107 - Intro. Physics Lab II	1
CS - Computer Science	3	MT 171 - Calculus II	3
MT 170 - Calculus I*	3	EN 101 - English Composition	3
PL 100 - Ethics as Intro. to Phil.	3	TH 111 - Intro. to Theology	3
Foreign Language#	3	Foreign Language	3
		MT 162 - Solid Anal. Geometry	2
Total		Total	
	16		18

Sophomore Year

PH 350 - Theoret. Mechanics I	3	PH 351 - Theoret. Mechanics II	3
MT 221 - Calculus III	3	PH 244 - Electronics II	2
PH 242 - Electronics I	2	PH 245 - Electronics II Lab	1
PH 243 - Electronics I Lab	1	MT 216 - Inf. Series & Diff. Equations	3
Philosophy Area II	3	Theology Elective	3
Humanities Elective	3	Foreign Language	3
Foreign Language	3	Humanities Elective	3
Total		Total	
	18		18

Junior Year

PH 366 - Atomic Physics	3	PH 374 - Nuclear Physics	3
PH 367 - Atomic Physics Lab	1	PH 381 - Nuclear Physics Lab	1
PH 352 - Electromagnetism	3	PH 364 - Optics	3
PH 395 - Physics Research I	1	PH 396 - Physics Research	1
CH 110 - Gen. Chemistry I	3	CH 112 - Gen. Chemistry II	3
CH 111 - Gen. Chemistry I Lab	1	CH 115 - Gen. Chemistry II Lab	1
Math Elective	3	MT or CS Elective ***	3
PL 290 - Theory of Knowledge	3	Theology Elective	3
Total		Total	
	18		15 - 18

Senior Year

PH 376 - Quantum Mechanics	3	PH 372 - Advanced E & M Theory	2
PH 398 - Senior Research	1	PH 365 - Optics Lab	1
Philosophy Area IV	3	PH 399 - Physics Seminar	1
Humanities Elective (Lit)	3	Social Science Elective	3
History I (100-level Elective)#	3	History II (100-level Elective)#	3
Social Science Elective	3	Theology Elective	3
		Humanities Elective (Lit)	3
Total		Total	
	16		16

* If determined by Mathematics Dept., students registered for MT 170 may be required to complete MT 161 Plane Analytic Geometry, 1 credit hour.

See Curricular Requirements, pages 37-38.

*** Not required. Recommended for those who plan to attend graduate school.

THE BACHELOR OF ARTS (Political Science)

The Department of Political Science and Sociology offers the Bachelor of Arts in political science. This program requires PO 101 Principles of Government, PO 110 American Government, PO 221 Comparative Government, PO 233 Political Philosophy PO 377 International Relations and either PO 390 Seminar in International Relations or PO 391 Seminar 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 Washington, D.C. and Cincinnati. The Political Science major 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 an excellent major for students preparing for careers in law, public service, foreign service, teaching, and business.

THE BACHELOR OF SCIENCE (Psychology)

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

Departmental requirements for a major are:

1. Completion of PS 101 and 102 as an introduction to upper division work.
2. Twenty-eight credit hours in upper division courses including PS 201, 210, 221, 222, and 299.
3. Satisfactory completion of BL 110, 111, 112, 113 to fulfill the science requirement, unless substitution of other science courses is approved by the Chair of the Department of Psychology.

BS (Psychology)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
BL 110 - Gen. Biology	2	BL 112 - Gen. Zoology	2
BL 111 - Gen. Biology Lab	2	BL 113 - Gen. Zoology Lab	2
EN 101 - English Composition	3	MT - Elective+	3
MT - Elective+	3	Modern Language	3
Modern Language**	3	PL 100 - Ethics as Intro. to Phil.	3
PS 101 - General Psychology	3	PS 102 - Adv. Gen. Psychology	3
Total	16	Total	16
Sophomore Year			
History I (100-level Elective)**	3	History II (100-level Elective)**	3
PS 210 - Statistical Techniques	3	Humanities Elective (Lit.)	3
Modern Language	3	Modern Language	3
TH 111 - Intro. to Theology	3	Philosophy Area II	3
Humanities Elective (Lit.)	3	PS 221 - Exp. Psychology I	3
Total	15	Total	15
Junior Year			
Humanities Elective	3	Humanities Elective	3
Social Science Elective	3	Social Science Elective	3
PS 222 - Exp. Psychology II	3	PL 290 - Theory of Knowledge	3
PS - Elective	3	PS 201 - Hist. & Systems	3
Theology Elective	3	PS - Elective	3
Total	15	Total	15
Senior Year			
Electives	6	Philosophy Area IV	3
PS - Elective	3	PS - Electives	5
PS 299 - Senior Comp. Review	2	Elective	3
Theology Elective	3	Theology Elective	3
Total	14	Total	14

** See Curricular Requirements, pages 37-38.

+ Majors must choose the mathematics sequence 149,150, or 150,151, or 170,171.



THE BACHELOR OF ARTS (Sociology)

Sociology, the study of human 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 human services professions; (3) careers in the fields of pure and applied research; (4) administrative and consultant positions in business, industry, government, and community work.

Students majoring in sociology must complete the following courses: SO 101 Introduction to Sociology; SO 180 Cultural Anthropology; SO 300 Sociological Theories; SO 352 Principles of Research; SO 353 Intermediate Social Research; and a second theory-based course such as SO 226 Utopian Communities or SO 265 Class and Class Conflict. Specific approved second-level theory courses to be offered will be announced by the department. Four additional upper division sociology courses complete the major of 30 hours. 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 number of options exist to demonstrate competency in Sociology during the senior year, including a senior project or successful completion of the Graduate Record Exam.

AB (Sociology)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
History I (100-level Elective)**	3	History II (100-level Elective)**	3
Foreign Language**	3	Foreign Language	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
Science Elective	3	Science Elective	3
Humanities Elective (Lit.)	3	EN 101 - English Composition	3
	15		15
Total	15	Total	15
Sophomore Year			
Theology Elective	3	Philosophy Area II	3
SO 101 - Intro. to Sociology	3	SO 180 - Cultural Anthropology	3
Foreign Language	3	Foreign Language	3
MT - Elective**	3	Humanities Elective (Lit.)	3
Social Science Elective	3	MT 146 - Elementary Statistics	3
	15		15
Total	15	Total	15
Junior Year			
Social Science Elective	3	Social Science Elective	3
SO 300 - Sociological Theories	3	PL 290 - Theory of Knowledge	3
SO 352 - Principles of Research	3	SO - Elective	3
Theology Elective	3	Humanities Elective	3
Humanities Elective	3	SO 353 - Intermed. Social Research	3
	15		15
Total	15	Total	15
Senior Year			
Electives	6	Philosophy Area IV	3
SO - Electives	6	SO - Electives	6
Theology Elective	3	Electives	6
	15		15
Total	15	Total	15

** See Curricular Requirements, pages 37-38.

It is suggested that students use EN 201 Expository and Research Writing for one of their free electives.

THE BACHELOR OF ARTS (Theatre Arts)

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

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

P.M. host in a small city

Company vice president: "Role Playing for Business"

Movie Director

Drama major (Master's level) at Yale University

Brooklyn Academy (New York): receiving top reviews in theatre

Management: Playhouse in the Park (Cincinnati)

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

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

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

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

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

Upon graduation, students in theatre arts will be equipped with a preprofessional, broadly based background in both theoretical and practical areas. Students will be acquainted with the history of theatrical production, many forms of dramatic literature, and the technical crafts of theatre. In addition, individual creative expression and potential talent are developed.

AB (Theatre Arts)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 101 - English Composition	3	Foreign Language	3
Science Elective	3	Science Elective	3
Foreign Language	3	TR 106 - Acting I.	3
TR 105 - Introduction to Theatre	3	PL 100 - Ethics as Intro. to Phil.	3
TH 111 - Intro. to Theology	3	TR Elective.	3
Total	15	Total	15
Sophomore Year			
History I (100-level Elective)	3	History II (100-level Elective)	3
MT - Elective	3	TR 310 - Dramatic Literature	3
TR 108 - Play Direction I	3	MT - Elective	3
Theology Elective	3	Philosophy Area II.	3
Foreign Language	3	Foreign Language	3
Total	15	Total	15
Junior Year			
TR 201 - Voice & Diction	3	TR 221 - Stagecraft	3
TR 206 - Stage Movement	3	TR 222 - Introduction to Lighting	3
Humanities Elective**	3	Humanities Elective **	3
Theology Elective	3	PL 290 - Theory of Knowledge	3
Social Science Elective	3	Social Science Elective	3
Total	15	Total	15
Senior Year			
TR 309 - Survey Theatre History	3	Theology Elective	3
TR 421 - Senior Seminar	3	TR - Electives	6
Philosophy Area IV	3	Electives	6
Literature Elective	3		
Elective	3		
Total	15	Total	15

** Dramatic literature strongly recommended.

THE BACHELOR OF ARTS (Theology)

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

The theology faculty attempts to assist the student in this integration with courses studying religious traditions, especially the Judaeo-Christian tradition, and with other related 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 other forms of ministry. With appropriate counselling, this major in the liberal arts can also be combined with a major in another field (e.g., English, History, Psychology, Secondary Education) both for the student's personal enrichment and in view of broader career opportunities.

Students majoring in theology take 12 courses (36 credit hours) in theology. Also required for graduation is a 20-page research paper on which the student will be examined by a faculty committee. Courses are to be distributed as follows:

	<i>Courses</i>	<i>Sem. Hrs.</i>
Introduction to Theology	1	3
6 courses arranged for theology majors*	6	18
2 Electives in specified areas of theology+	2	6
3 theology Electives	3	9
Total	12	36

* (TH 201, 205, 206, 250, 303, 390).

+ (One course in Scripture; one course in Buddhism or Islam or Judaism, etc.)

AB (Theology)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

Foreign Language** 3	Foreign Language 3
History I (100-level Elective)** 3	History II (100-level Elective)** 3
Science Elective 3	Science Elective 3
TH 111 - Intro. to Theology 3	PL 100 - Ethics as Intro. to Phil. 3
EN 101 - English Composition 3	Humanities Elective (Lit.) 3
Total 15	Total 15

Sophomore Year

Foreign Language 3	Foreign Language 3
Humanities Elective (Lit.) 3	MT - Elective 3
MT - Elective** 3	Philosophy Area II 3
Social Science Elective 3	Social Science Elective 3
Theology (Christian Doctrine I)# 3	Theology (Intro. to Sacred Scripture)# 3
Total 15	Total 15

Junior Year

Humanities Elective 3	Humanities Elective 3
PL 290 - Theory of Knowledge 3	Philosophy Area IV 3
Theology (Sacred Scripture Elective) 3	Theology (Christian Doctrine II)# 3
Theology Elective 3	Theology (Church History)# 3
Elective% 3	Elective% 3
Total 15	Total 15

Senior Year

Theology (Christian Ethics)# 3	Theology (Buddhism, Judaism, etc.) 3
Theology (Senior Seminar)# 3	Electives% 12
Theology Electives 6	
Elective% 3	
Total 15	Total 15

Special section for theology majors.

** See Curricular Requirements, pages 37-38.

% Theology majors have 21 hours of free electives; it is recommended that these be chosen in one area as a second concentration, rather than a wide dispersal of courses.

THE BACHELOR OF SCIENCE (Natural Sciences) (For Premedical and Predental Students)

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

A student who wishes to major in another area is free to do so. Such a student should, however, seek advice from a member of the Committee for Health Sciences, the Chair of the appropriate department, and consult a current listing of professional school admission requirements* so that the selected course of studies will assure the student 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 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.

PREPHARMACY PROGRAM

Colleges of Pharmacy require a minimum of two years of undergraduate study and include certain required courses for admission. If the required courses have been completed, students may apply to a College of Pharmacy after two 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 BS degree, this can be done easily in the case of the BS (Biology), BS (Chemical Science), and BS (Natural Sciences) programs. The student then should meet with the chair of the appropriate science department for guidance in the choice of courses necessary for the desired degree.

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

Prepharmacy Program

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
MT 150 - Elements of Calculus I#	3	MT 151 - Elements of Calculus II#	3
BL 110 - Gen. Biology	2	BL 112 - Gen. Zoology	2
BL 111 - Gen. Biology Lab	2	BL 113 - Gen. Zoology Lab	2
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	2
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
PS 101 - Gen. Psychology	3	EN 101 - English Composition	3
Total	17	Total	18

Sophomore 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
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
MT 146 - Elementary Statistics	3	BL 212 - Bacteriology*%	2
History I (100-level Elective)+	3	Philosophy Area II	3
EN - Literature	3	EC 102 - Microeconomic Principles	3
Total	17	Total	16

+ If completed in high school, substitute literature course.

* Some Colleges of Pharmacy also require Bacteriology Lab (BL 213).

% Microbiology, BL 210, may be substituted.

See Curricular Requirements, page 37.

Liberal Arts Degree With Business Option

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

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

Required courses in the Business Option

AC 100	Principles of Accounting I	3 sem. hrs.
AC 101	Principles of Accounting II	3 sem. hrs.
EC 100	Microeconomic Principles	3 sem. hrs.
EC 101	Macroeconomic Principles	3 sem. hrs.
MK 100	Principles of Marketing	3 sem. hrs.
FI 255	Business Finance.	3 sem. hrs.
	(prerequisite: AC 101)	

Other courses recommended but not required:

IS 100	Principles of Data Processing	3 sem. hrs.
MG 200	Organizational Behavior	3 sem. hrs.
BA 270	Business Statistics or	
MT 146	Elementary Statistics or	
MT 156	General Statistics	3 sem. hrs.
MT 150	Elements of Calculus I or	
MT 170	Calculus I	3 sem. hrs.

Undergraduate students may take EC 100 and EC 101 as social science electives in the core. MT 146, MT 156, MT 150, and MT 170 count as mathematics electives in most programs.

College of Arts and Sciences

AB AND BS DEGREES

(Three-Year Programs)

Designed to prepare students for Graduate Business Programs +

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
First Year			
EN 101 - English Composition	3	Humanities Elective (Lit.)	3
Major I	3	Major II	3
History I (100-level Elective)*	3	Philosophy Area II	3
Foreign Language*	3	History II (100-level Elective)*	3
PL 100 - Ethics as Intro. to Phil.	3	Foreign Language	3
TH 111 - Intro. to Theology	3	Theology Elective	3
Science Elective	3	Science Elective	3
Total	21	Total	21

Second Year			
Major III	3	Major V	3
Major IV	3	Major VI	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions	3	MT 150 - Elements of Calculus I	3
PL 290 - Theory of Knowledge	3	Philosophy Area IV	3
Humanities Elective (Lit.)	3	FI 255 - Business Finance	3
Foreign Language	3	Foreign Language	3
Total	21	Total	21

Third Year			
Major VII	3	Major IX	3
Major VIII	3	Major X	3
Humanities Elective	3	Humanities Elective	3
Theology Elective	3	Theology Elective	3
MK 100 - Principles of Marketing	3	BA 270 - Business Statistics	3
AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
Total	18	Total	18

* See Curricular Requirements, pages 37-38.

+ This program fulfills all University requirements for graduation in the College of Arts and Sciences with majors of 30 hours or less and for admission into the Graduate Business Programs at Xavier University. It enables a student to complete the AB or BS and MBA in four years.

For those majors requiring more than 30 semester hours and additional specific course requirements, such requirements must be fulfilled. The interested student should study carefully the requirements of the major and make necessary adjustments. Academic counseling is strongly recommended in such instances. In all instances, however, the University requirement of 120 semester hours for a degree must be completed.

COOPERATIVE FORESTRY AND ENVIRONMENTAL MANAGEMENT PROGRAM

This program is designed to coordinate the education of undergraduate students at Xavier with graduate programs in the Duke University School of Forestry and Environmental Studies. Participating students are accepted into either of two Duke University degree programs, the Master of Forestry (MF) or Master of Environmental Management (MEM). The MF emphasizes forest resources, and graduates are typically employed in administrative, managerial, or staff positions with forest industries and government agencies. The MEM program considers natural resources in a broader context. Students find employment in such areas as resource development, environmental protection, impact assessment, land use analysis, and coastal zone management.

The curriculum which leads to the above degrees consists of six semesters of undergraduate study at Xavier University and four semesters of graduate study at Duke University. During the fall semester of the junior year at Xavier, the student applies for admission to the Duke School of Forestry and Environmental Studies. The BS (Applied Biology) degree will be awarded by Xavier University upon satisfactory completion of one year of full-time study at Duke University. Upon satisfactory completion of the requirements for a master's degree, Duke University will award either the degree of MF or MEM, whichever is appropriate for the student's area of concentration at Duke University.

Xavier University – Duke University

Cooperative Forestry and Environmental Management Program

BS (Applied Biology)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
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Freshman Year

BL 110 - Gen. Biology	2	BL 112 - Gen. Zoology	2
BL 111 - Gen. Biology Lab	2	BL 113 - Gen. Zoology Lab	2
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	2
MT 150 - Elements of Calculus I	3	MT 151 - Elements of Calculus II	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Phil.	3
EN 101 - English Composition	3		
Total	17	Total	15

Sophomore Year

BL 200 - Gen. Botany	2	BL 250 - Ecology	3
BL 201 - Gen. Botany Lab	2	BL 251 - Ecology Lab	1
PH 104 - College Physics I	3	PH 106 - College Physics II	3
PH 105 - Introductory Physics I Lab ...	1	PH 107 - Introductory Physics II Lab ...	1
Theology Elective	3	PL 290 - Theory of Knowledge	3
CS 150 - Intro. Programming	3	BL 230 - Genetics	3
Humanities Elective (Lit.)	3	MT 156 - Gen. Statistics	3
Total	17	Total	17

Junior Year

BL 398 - Methods of Biol. Research I ...	1	BL 399 - Methods of Biol. Research II ...	1
HS - History I (100-level Elective)#	3	HS - History II (100-level Elective)#	3
EC 101 - Macroeconomic Principles	3	EC 102 - Microeconomic Principles	3
Theology Elective	3	BL 212 - Bacteriology	2
Philosophy Area IV	3	BL 213 - Bacteriology Lab	2
Humanities Elective (Lit.)	3	Humanities Electives	6
Total	16	Total	17

Senior Year

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

If a student is unable to enter Duke University, arrangements should be made with the Biology Department Chair to determine the senior year courses necessary for completion of requirements leading to the BS (Biology) degree.

See Curricular Requirements, pages 37-38.

COOPERATIVE SCIENCE—ENGINEERING PROGRAM

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

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

I. Academic Degrees

Upon completion of the requirements as specified below, the student will be awarded a BS (Applied Physics) or a BS (Applied Chemistry) degree by Xavier University. The program is designed for students who wish to continue their education in some field of engineering. This cooperative program ultimately can lead to a Master's degree in engineering.

II. Curricular Calendar

A. Years 1 to 3

(See the block schedules on the next two pages.)

Note that there are courses at U.C. in the third year.

B. Year 4

1. Articulation work in appropriate department in the College of Engineering at the University of Cincinnati. This work is arranged in cooperation with the student, Xavier University, and the University of Cincinnati.
2. 9 semester hours (12 qtr hrs) of liberal arts courses. At the end of the fourth year, a B.S. degree is awarded by Xavier.

C. Year 4 (Alternate)

After three years, some students choose to remain at Xavier and complete their program. Individual arrangements are made for the fourth year and a degree in APPLIED CHEMISTRY OR APPLIED PHYSICS IS AWARDED.

Degree Programs

College of Business Administration

The College of Business Administration offers the Bachelor of Science in Business Administration in the following concentrations: Accounting, Economics, Finance, General Business, 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 an intensive background in his or her 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 requirements are described on pages of this catalogue. Requirements in the major are listed in the degree programs which immediately follow this page. College of Business Administration core curriculum requirements for all majors are as follows:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
AC 100, 101	Principles of Accounting I,II	6
EC 100, 101	Microeconomic Principles, Macroeconomic Principles	6
IS 100	Principles of Data Processing	3
MK 100	Principles of Marketing	3
IR 210	Human Resources	3
FI 255	Business Finance	3
MG 200	Organizational Behavior	3
BA 245	International Trade & Business Environment, or	
BA 250	Money & Banking	3
BA 270	Business Statistics	3
BA 280	Legal Environment.	3
BA 331	Applied Quantitative Methods for Business	3
BA 399	Business Policy	3

NOTES:

1. The College of Business requires the following six hour mathematics sequence:

MT 149	Elementary Functions
MT 150	Calculus

Students who test out of MT 149 and begin with MT 150 should then take MT 156 General Statistics. If the MT 150, MT 156 sequence is followed, BA 270 Business Statistics is waived.

2. Many courses in the Business Core and in the various Business Majors have prerequisites. Students are advised to check the course listings in this catalogue for these prerequisites.

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 financial accounting theory, systems analysis and design, managerial accounting, taxation, and auditing culminate in preparation for the CPA and CMA examinations.

Students majoring in accounting must complete the following courses in the major: AC 100 and 101 Principles of Accounting I, II; AC 200 and 201 Intermediate Accounting I, II; AC 220 Cost Accounting; AC 230 Taxation; AC 310 Advanced Accounting; AC 340 Accounting Information Systems; and AC 320 Auditing.

Students are encouraged to choose additional courses from among the following to better prepare themselves for their professional careers:

AC 221 Cost Accounting II

AC 231 Taxation of Capital Gains

AC 330 CPA Review – Theory and Practice

AC 335 Business Law for Accountants

Other requirements for the degree are included in the University core curriculum requirements and the core curriculum requirements in the College of Business Administration.

BSBA (Accounting)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

AC 100 - Prin. of Accounting I 3	AC 101 - Prin. of Accounting II 3
EC 100 - Microeconomic Principles 3	EC 101 - Macroeconomic Principles 3
MT 149 - Elementary Functions* 3	MT 150 - Elements of Calculus I 3
PL 100 - Ethics as Intro. to Phil. 3	TH 111 - Intro. to Theology 3
EN 101 - English Composition 3	IS 100 - Prin. of Data Processing 3
Total 15	Total 15

Sophomore Year

AC 200 - Intermediate Accounting I 3	AC 201 - Intermediate Accounting II 3
BA 270 - Business Statistics 3	FI 255 - Business Finance 3
MK 100 - Principles of Marketing 3	MG 200 - Organizational Behavior 3
IR 210 - Human Resources 3	Theology Elective 3
Humanities Elective 3	Humanities Elective (Lit) 3
Total 15	Total 15

Junior Year

AC 220 - Cost Accounting I 3	BA 280 - Legal Environment 3
AC 230 - Taxation** 3	AC 310 - Advanced Accounting** 3
Philosophy Area II 3	AC 340 - Acctg. Information Syst. ** 3
BA 331 - Quantitative Methods 3	Theology Elective 3
Science Elective 3	Science Elective 3
Total 15	Total 15

Senior Year

AC 320 - Auditing** 3	Humanities Elective (Lit) 3
PL 290 - Theory of Knowledge 3	Theology Elective 3
Humanities Elective 3	Philosophy Area IV 3
BA 250 - Money & Banking, or BA 245 - Internat. Trade & Bus. Envir. 3	Social Science Elective 3
Social Science Elective 3	BA 399 - Business Policy 3
Total 15	Total 15

* See Curricular Requirements, page 37.

** Offered both semesters, although one may be evenings only.

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; business executives; and labor leaders. It is also a very appropriate major for a degree in law, since many current legal issues and controversies arise from problems in the economic system.

Requirements in the concentration include: EC 200 Microeconomic Analysis; EC 201 Macroeconomic Analysis; and twelve (12) hours* of economics electives, at least six (6) hours of which must be 300-level economics courses.

- * Three hours of Industrial Relations courses may be substituted for three hours of economics courses, except IR 210, IR 320, IR 321, and IR 395.

BSBA (Economics)

Recommended Sequence of Program

First Semester

Sem. Hrs.

Second Semester

Sem. Hrs.

Freshman Year

AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions*	3	MT 150 - Elements of Calculus I	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Philosophy	3
EN 101 - English Composition	3	IS 100 - Prin. of Data Processing	3
Total	15	Total	15

Sophomore Year

BA 280 - Legal Environment	3	MG 200 - Organizational Behavior	3
IR 210 - Human Resources	3	FI 255 - Business Finance	3
BA 270 - Business Statistics	3	MK 100 - Principles of Marketing	3
Philosophy Area II	3	Theology Elective	3
EC 200 - Microeconomic Analysis	3	EC 201 - Macroeconomic Analysis	3
Total	15	Total	15

Junior Year

BA 250 - Money & Banking, or BA 245 - Internat. Trade & Bus. Envir.	3	Theology Elective	3
Science Elective	3	Science Elective	3
Humanities Elective	3	Social Science Elective	3
BA 331 - Quantitative Methods	3	Humanities Elective (Lit)	3
PL 290 - Theory of Knowledge	3	Economics Elective**	3
Total	15	Total	15

Senior Year

BA 399 - Business Policy	3	Economics Electives**	6
Economics Elective**	3	Theology Elective	3
Philosophy Area IV	3	Humanities Elective	3
Humanities Elective (Lit)	3	Elective	3
Social Science Elective	3	Total	15
Total	15	Total	15

* See Curricular Requirements, page 37.

** See requirements for concentration on previous page.

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Finance)

The Bachelor of Science in Business Administration program in finance develops an appreciation in the student of financial management and financial operation. Everyone majoring in finance must take basic courses designed to acquaint him or her 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 the discipline. In addition, the student may choose elective subjects. This permits the student 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.

Specific requirements in the finance concentration include the following courses: FI 255 Business Finance; FI 265 Investments; FI 270 Financial Institutions; FI 301 Financial Management; FI 380 Cases and Problems in Finance; and six (6) semester hours of upper division finance and approved accounting electives. At least three (3) elective 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 Intermediate Accounting I to fulfill the accounting elective requirement.

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (General Business)

The Bachelor of Science in Business Administration in General Business provides a broad, flexible program in business education that can be taken to prepare for a variety of careers. Students interested in Pre-Law, Pre-MBA and Entrepreneurship may benefit by electing this major. The degree requires advanced study in a number of business areas, with the opportunity to take business electives pertaining to career choices.

The number of credit hours required for a BSBA in General Business is 21 over and above the College of Business core curriculum requirements. Fifteen hours are required. The 6 elective hours may be chosen from any CBA departmental offering.

The 15 hours of required major courses must be selected from the following. One course is to be selected from each of the 5 areas.

<i>Course No.</i>	<i>Subject Area</i>	<i>Sem. Hrs.</i>
1. AC 220	Cost Accounting	3
AC 230	Taxation of Individuals	
AC 200	Intermediate Accounting	
2. FI 270	Financial Institutions	3
FI 265	Investments	
FI 301	Financial Management	
3. IS 320	Microcomputer Application	3
4. MK 220	International Marketing	3
MK 255	New Product Development	
MK 245	Marketing Communications	
MK 270	Consumer Behavior	
5. MG 304	Entrepreneurship	3
MG 315	Organizational Theory & Design	
MG 323	Business Communications	
Electives	Upper Division (200-level or higher)	6
	Business College courses	21

BSBA (General Business)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions	3	MT 150 - Elements of Calculus I	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Philosophy	3
EN 101 - English Composition	3	Social Science Elective	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Sophomore Year			
IR 210 - Human Resources	3	Social Science Elective	3
BA 270 - Business Statistics	3	MK 100 - Principles of Marketing	3
IS 100 - Prin. of Data Processing	3	FI 255 - Business Finance	3
Philosophy Area II	3	Theology Elective	3
MG 200 - Organizational Behavior	3	Humanities Elective (Lit)	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Junior Year			
BA 280 - Legal Environment	3	General Business Core	3
PL 290 - Theory of Knowledge	3	Theology Elective	3
Science Elective	3	Science Elective	3
General Business Core	3	General Business Core	3
Humanities Elective (Lit)	3	BA 250 - Money & Banking, or BA 245 - Internat. Trade & Bus. Envir.	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Senior Year			
General Business Core	3	Humanities Elective	3
Philosophy Area IV	3	General Business Elective	3
Humanities Elective	3	BA 399 - Business Policy	3
General Business Core	3	Theology Elective	3
BA 331 - Quantitative Methods	3	General Business Elective	3
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Total	15	Total	15

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Industrial Relations)

In today's increasingly complex business world, there is a need for personnel and industrial relations leaders with well-rounded professional training. Although the primary goal of the program is to provide the professional training necessary for graduates to obtain personnel and industrial relations jobs, the major should be especially appealing to students with broad interests. Reflecting this broad approach, the field of personnel and industrial relations is studied from an economic, political, psychological, and legal perspective. For example, some courses such as Industrial Psychology, are approached from a psychological perspective, while others, such as Personnel and Labor Law are approached from a legal perspective. In still other courses, such as Labor Relations, Personnel Management and Current Labor Problems, economic, psychological and legal perspectives are combined into a single course.

In sum, the major is sufficiently broad to appeal to students with wide interests, yet specific enough to provide the necessary professional skills that are attractive to prospective employers. The personnel and industrial relations major prepares graduates for professional positions in personnel, industrial relations, and government work. It also serves as excellent preparation for graduate programs in personnel or industrial relations as well as for law school.

The concentration requires eighteen (18) hours beyond Human Resources. IR 300 Labor Relations, and IR 320 Personnel Administration are recommended for all majors. Of the remaining twelve (12) hours, three (3) hours of economic courses (other than EC 100, 101 and 250 or 245) may be substituted for three (3) hours of Industrial Relations electives.

BSBA (Industrial Relations)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

AC 100 - Prin. of Accounting I 3	AC 101 - Prin. of Accounting II 3
EC 100 - Microeconomic Principles 3	EC 101 - Macroeconomic Principles. 3
MT 149 - Elementary Functions* 3	MT 150 - Elements of Calculus I 3
TH 111 - Intro. to Theology 3	PL 100 - Ethics as Intro. to Philosophy . . 3
EN 101 - English Composition 3	IS 100 - Prin. of Data Processing 3
Total 15	Total 15

Sophomore Year

BA 270 - Business Statistics 3	BA 280 - Legal Environment 3
IR 210 - Human Resources 3	FI 255 - Business Finance 3
MG 200 - Organizational Behavior. 3	MK 100 - Principles of Marketing 3
Philosophy Area II. 3	Theology Elective 3
Humanities Elective (Lit). 3	Humanities Elective (Lit). 3
Total 15	Total 15

Junior Year

IR Elective 3	IR Elective 3
PL 290 - Theory of Knowledge. 3	IR Elective 3
Science Elective 3	Science Elective 3
Social Science Elective 3	Theology Elective 3
BA 331 - Quantitative Methods. 3	BA 250 - Money & Banking, or 3
Total 15	BA 245 - Internat. Trade & Bus. Environ 3
	Total 15

Senior Year

IR Elective 3	Social Science Elective 3
IR Elective 3	IR Elective 3
Philosophy Area IV 3	Theology Elective 3
BA 399 - Business Policy. 3	Humanities Elective 3
Humanities Elective 3	Elective. 3
Total 15	Total 15

* See Curricular Requirements, page 37.

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Information Systems)

The objectives of the Information System Program are to facilitate good management via information systems by:

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

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

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
IS 100	Principles of Data Processing	3
IS 200	Data Organization	3
IS 350	Systems Analysis & Design	3
IS 352	Data Processing Information Systems	3
IS 364	COBOL Programming	3
IS	Electives	6

The BSBA (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

BSBA (Information Systems)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions*	3	PL 100 - Ethics as Intro. to Philosophy	3
TH 111 - Intro. to Theology	3	MT 150 - Elements of Calculus I	3
EN 101 - English Composition	3	Social Science Elective	3
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Total	15	Total	15
Sophomore Year			
IS 100 - Prin. of Data Processing	3	IS 200 - Data Organization@	3
BA 250 - Money & Banking, or BA 245 - Internat. Trade & Bus. Environ.	3	BA 270 - Business Statistics	3
IR 210 - Human Resources	3	Humanities Elective (Lit)	3
BA 280 - Legal Environment	3	MG 200 - Organizational Behavior	3
Philosophy Area II	3	Theology Elective	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Junior Year			
BA 331 - Quantitative Methods	3	Elective	3
IS 350 - Systems Analysis & Design@	3	IS 364 - COBOL@	3
Theology Elective	3	IS Elective	3
FI 255 - Business Finance	3	Philosophy Area IV	3
PL 290 - Theory of Knowledge	3	Humanities Elective (Lit)	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15
Senior Year			
Social Science Elective	3	IS Elective	3
MK 100 - Principles of Marketing	3	BA 399 - Business Policy	3
IS 352 - Data Process. Info. Systems@	3	Humanities Elective	3
Humanities Elective	3	Theology Elective	3
Science Elective	3	Science Elective	3
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
Total	15	Total	15

* See Curricular Requirements, page 37.

@ Course is offered only in the semester indicated.

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Management)

The objectives of this program are to facilitate good management by:

1. Supplying education in the principles and practices for the effective operation of the business organization.
2. Enabling the student to handle a wide range of problems encountered in management.
3. Helping to develop the student's capabilities in order to prepare him or her for leadership in society.

The number of required hours for a management major is 21 hours, including the required beginning course (MG 200 Organizational Behavior). Required courses are as follows:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
MG 200	Organizational Behavior	3
MG 302	Production Management	3
MG 310	Work Group Process	3
MG 315	Organizational Theory & Design	3
MG 323	Business Communications	3
MG	Electives	6

The BSBA 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 Chair of the Education Department for certification requirements.

BSBA (Management)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions*	3	MT 150 - Elements of Calculus I	3
PL 100 - Ethics as Intro. to Philosophy	3	TH 111 - Intro. to Theology	3
EN 101 - English Composition	3	Humanities Elective	3
Total	15	Total	15
Sophomore Year			
BA 270 - Business Statistics	3	BA 280 - Legal Environment	3
IR 210 - Human Resources	3	FI 255 - Business Finance	3
MG 200 - Organizational Behavior	3	MK 100 - Principles of Marketing	3
Philosophy Area II	3	Theology Elective	3
IS 100 - Prin. of Data Processing	3	Humanities Elective (Lit)	3
Total	15	Total	15
Junior Year			
MG 310 - Work Group Process	3	MG 302 - Production Management	3
PL 290 - Theory of Knowledge	3	MG 315 - Organ. Theory & Design	3
Science Elective	3	Science Elective	3
Social Science Elective	3	Theology Elective	3
Humanities Elective (Lit)	3	Social Science Elective	3
Total	15	Total	15
Senior Year			
BA 331 - Quantitative Methods	3	BA 250 - Money & Banking, or	
MG 323 - Business Communications	3	BA 245 - Internat. Trade & Bus. Environ.	3
Philosophy Area IV	3	BA 399 - Business Policy	3
Management Electives	6	Theology Elective	3
Total	15	Humanities Elective	3
		Elective	3
		Total	15

* See Curricular Requirements, page 37.

THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Marketing)

Marketing is the dynamic process by which individuals and organizations strive to anticipate and satisfy consumers' 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 BSBA (Marketing) degree must fulfill the following requirements in the major: MK 100 Principles of Marketing (this is fulfilled in the general core curriculum requirements of the College of Business Administration); MK 202 Marketing Research; MK 204 Marketing Management; MK 299 Marketing Planning and Analysis; and nine (9) semester hours of electives in upper division marketing courses.

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.

BSBA (Marketing)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
AC 100 - Prin. of Accounting I	3	AC 101 - Prin. of Accounting II	3
EC 100 - Microeconomic Principles	3	EC 101 - Macroeconomic Principles	3
MT 149 - Elementary Functions*	3	MT 150 - Elements of Calculus I	3
PL 100 - Ethics as Intro. to Philosophy	3	TH 111 - Intro. to Theology	3
EN 101 - English Composition	3	IS 100 - Prin. of Data Processing	3
Total	15	Total	15
Sophomore Year			
BA 280 - Legal Environment	3	MG 200 - Organizational Behavior	3
IR 210 - Human Resources	3	FI 255 - Business Finance	3
BA 270 - Business Statistics	3	MK 100 - Principles of Marketing	3
Philosophy Area II	3	Theology Elective	3
Humanities Elective (Lit)	3	Humanities Elective (Lit)	3
Total	15	Total	15
Junior Year			
Marketing Elective	3	MK 202 - Marketing Research	3
PL 290 - Theory of Knowledge	3	Marketing Elective	3
Science Elective	3	Science Elective	3
Social Science Elective	3	Social Science Elective	3
BA 331 - Quantitative Methods	3	Theology Elective	3
Total	15	Total	15
Senior Year			
BA 250 - Money & Banking, or BA 245 - Internat. Trade & Bus. Environ.	3	MK 299 - Markt. Planning & Analysis	3
MK 204 - Marketing Management	3	BA 399 - Business Policy	3
Marketing Elective	3	Theology Elective	3
Philosophy Area IV	3	Humanities Elective	3
Humanities Elective	3	Elective	3
Total	15	Total	15

* See Curricular Requirements, page 37.

Degree Programs

College of Professional Studies

THE BACHELOR OF SCIENCE

(Criminal Justice)

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

Students majoring in Criminal Justice must complete 30 hours including the following

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
CJ 101	- Introduction to Criminal Justice	3
CJ 102	- Introduction to Law Enforcement	3
CJ 210	- Basic Constitutional Law & the American Courts I	3
CJ 221	- Juvenile Justice in a Changing Society	3
CJ 230	- Basic Constitutional Law & the American Courts II	3

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

All persons majoring in the degree program must choose 9 additional criminal justice hours to meet the total required 30 semester hours.

The criminal justice student advisor consults individually with each major in course selections.

BS (Criminal Justice)

Recommended Sequence of Program

First Semester *Sem. Hrs.* *Second Semester* *Sem. Hrs.*

Freshman Year

History I (100-level Elective) 3	CJ 101 - Intro. to Criminal Justice 3
Foreign Language 3	Foreign Language 3
TH 111 - Intro. to Theology 3	Science Elective 3
Science Elective 3	History II (100-level Elective) 3
EN 101 - English Composition 3	PL 100 - Ethics as Intro. to Philosophy . . 3
Total 15	Total 15

Sophomore Year

CJ 260 - Current Issues in CJ 3	CJ 210 - Basic Const. Law & Amer. Court I 3
Theology Elective 3	Foreign Language 3
Foreign Language 3	CJ 102 - Intro. to Law Enforcement 3
Humanities Elective (Lit.) 3	Humanities Elective 3
MT 146 - Elementary Statistics 3	Philosophy Area II 3
Total 15	Total 15

Junior Year

Theology Elective 3	PL 290 - Theory of Knowledge 3
CJ 221 - Juvenile Justice in a Changing Society 3	CJ 268 - Overview of Contemp. Corr. . . . 3
Humanities Elective 3	CJ 230 - Basic Constitutional Law & American Courts II 3
Social Science Elective 3	Social Science Elective 3
MT elective 3	Humanities Elective (Lit.) 3
Total 15	Total 15

Senior Year

CJ - Electives 6	CJ 291 - Practicum 3
CJ 281 - Methods of Research in CJ 3	Philosophy Area IV 3
Theology Elective 3	Elective (or CJ elective) 3
Elective 3	Electives 6
Total 15	Total 15

TEACHER CERTIFICATION

Elementary School

The BS (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. Students also wishing to teach Kindergarten should see footnote in the same schedule. Information and counseling are available in the Teacher Education and Placement Office, 14 Alter Hall.

Secondary School

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

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

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

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

1. Professional education courses: ED 131, 141, 142, 210, 211, 215, and 403.
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 BS (Physical Education and Health) program. Information and counseling are available at the Physical Education Office in the Xavier University Fieldhouse.
4. For teaching biology and general science, the student must follow the BS (Teaching Biology and General Science) program. Information and counseling are available in the Biology Department and in Alter 14.

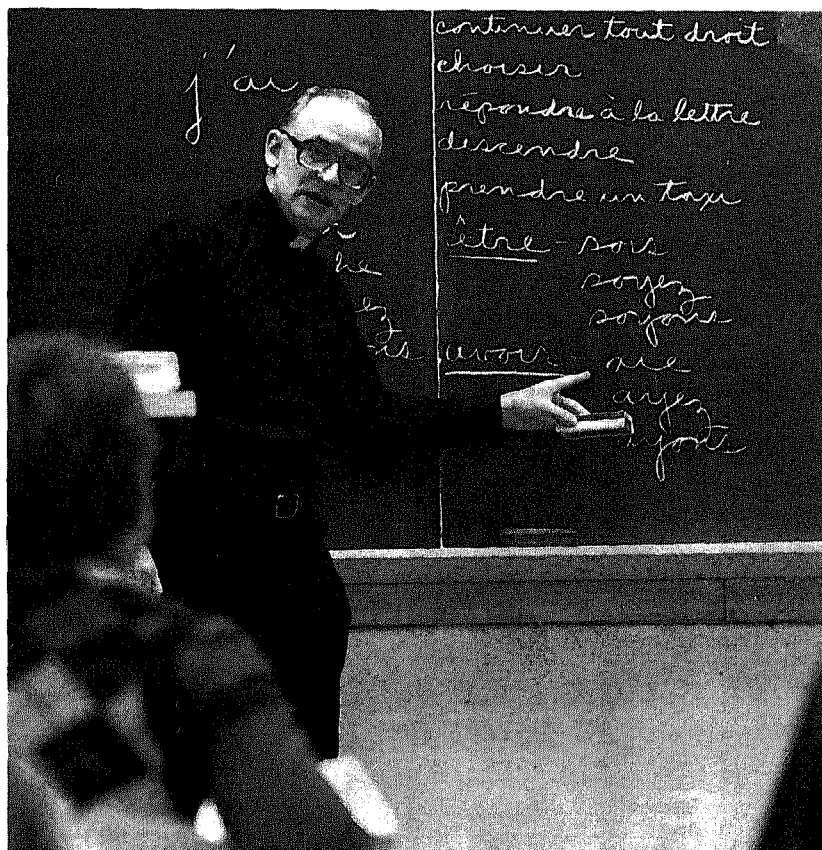
Montessori Education

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 Chair of the Department of Education.

Outside of Ohio

Students desirous of meeting professional requirements of other states should obtain an official statement of specific requirements from the Department of Education of their respective states. They should consult the Teacher Education and Placement Office before registering for courses in education.



BS Elementary Education

(Grades 1-8)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 101 - English Composition	3	BL 114 - Intro. to Life Science	3
ED 300 - Intro to Elem. Ed. +	3	BL 115 - Intro. to Life Science Lab	1
ED 001 - Fresh. Elem. Field Exper.	0	HS Western/Non-West. Civ. II ++	3
HS Western/Non-West. Civ I ++	3	MT 140 - Gen. Mathematics I.	3
PH 114 - Intro. to Phys. Science.	3	PL 100 - Ethics as Intro. to Philosophy	3
PH 115 - Intro. to Phys. Science Lab	1	PO 110 - American Government.	3
TH 111 - Intro. to Theology	3		
Total	16	Total	16
Sophomore Year			
AR 221 - Elem. School Art.	2	AR 221 - Elem. School Art.	2
ED 141 - Human Growth & Dev. I.	3	ED 142 - Human Growth & Dev. II	3
HS American History I	3	HS American History II.	3
MT 141 - General Mathematics II.	3	ED 385 - Phys. Ed. Elem. School.	2
MU 121 - Fund. of School Music	2	ED 002 - Soph. Elem. Field Exper.	0
TH - Elective	3	MU 122 - Music in Elem. School	2
ED 382 - Elem. Health & Hygiene	2	Philosophy Area II	3
Total	18	Total	15
Junior Year			
ED 214 - Meth. of Teach. Reading	3	ED 212 - Clinical Experiences	1
ED 301 - Elem. Meth. & Mat.: Science@	2	ED 216 - Diag. Reading Instruction.	3
ED 302 - Elem. Meth. & Mat.: Soc. Stud. @	2	ED 307 - Elem. Meth. & Mat.: Lang. Arts & Linguistics@	3
ED 315 - Elem. Meth. & Mat.: Math	3	ED 226 - Children's Literature	3
ED 439 - Learning & Behav. Disorders	2	PL 290 - Theory of Knowledge.	3
TH - Elective	3		
Total	15	Total	13
Senior Year			
ED 003 - Pre-Student Teach. Exp.	0	ED 204 - Student Teaching (Elem)*	6
CA 101 - Oral Communication	3	ED 304 - Seminar: Prof. Probs.	3
EN Literature Elective	3	ED 200 - Adv. Comp. for Teachers	3
Theology Elective	3		
Philosophy Area IV	3		
Free Elective	3		
Total	15	Total	12

- + Requires registration for ED 001 concurrently.
- ++ Majors must elect one semester of a Western civilization course and one semester of a non-Western civilization course. A I and a II must be elected. Any combination fulfills the requirement. Consult counselor.
- @ ED 300 is a prerequisite for ED 301, 302, and 307.
- * If all education requirements have been completed, student may elect to do student teaching in the fall semester.

Students wishing certification in Kindergarten through 8th grade must also take ED 305 and 306 (Kindergarten Meth. & Mat. I and II, 2 semester hours each).



BS Elementary Education

Special Education

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
ED 001 - Fresh. Elem.Field Exper	0	BL 114 - Intro. to Life Science	3
ED 300 - Intro to Elem. Ed. +	3	BL 115 - Intro. to Life Science Lab	1
EN 101 - English Composition	3	ED 271 - Intro. to Emot. Dist. Child#	2
HS Western/Non-west. Civ. I + +	3	HS Western/Non-West. Civ. II + +	3
PH 114 - Intro. to Phys. Science.	3	MT 140 - General Mathematics I	3
PH 115 - Intro. to Phys. Science Lab	1	PL 100 - Ethics as Intro. to Philosophy	3
TH 111 - Intro. to Theology	3	PO 110 - American Government	3
Total		Total	
	16		18
Sophomore Year			
AR 221 - Elementary School Art	2	AR 221 - Elementary School Art	2
ED 141 - Human Growth & Dev. I	3	ED 142 - Human Growth & Dev. II	3
ED 382 - Elem. Health & Hygiene	2	ED 273 - Educ & Behav. Mgt. Excep. Child.	2
HS American History I	3	ED 385 - Phys. Ed. Elem. School	2
MT 141 - General Mathematics II	3	ED 002 - Soph. Elem. Field Exper.	0
MU 121 - Fund. of School Music	2	MU 122 - Music in Elem. School	2
TH - Elective	3	Philosophy Area II	3
Total		Total	
	18		17
Junior Year			
ED 214 - Meth. of Teach. Reading	3	ED 212 - Clinical Experiences	1
ED 301 - Elem.Meth.& Mat.:Science@	2	ED 216 - Diag. Reading Instruction	3
ED 302 - Elem.Meth.&Mat.:Social Stud@	2	ED 307 - Elem.Meth.&Mat.:Lang.Arts & Linguistics@	3
ED 315 - Elem.Meth.&Mt.:Math	3	ED 226 - Children's Literature	3
ED 443 - Couns.Parents of Exc. Child.	2	ED 344 - Ed.Plan & Curr.Dev.:MR**	2
ED 439 - Learning & Behav. Disorders	2	ED 436 - Occ.Orient. & Job Tr.:MR + + +	2
TH - Elective	3	PL 290 - Theory of Knowledge.	3
Total		Total	
	17		17
Senior Year			
CA 101 - Oral Communication	3	ED 204 - Student Teaching(Elem)*.	6
EN English Literature Elective	3	ED 304 - Seminar Prof. Problems.	3
ED 440 - Ind.Assess. and Pres.Teach.	2	EN 200 - Adv. Comp. for Teachers	3
ED 441 - Meth.&Mat.Exc.Child	2		
ED 446 - Education of MSPR@	2		
Philosophy Area IV	3		
Theology - Elective	3		
ED 003 - Pre-Student Teach. Exper.	0		
Total		Total	
	16-18		12

- + Requires registration for ED 001 concurrently.
- ++ Majors must elect one semester of a Western civilization course and one semester of a non-Western civilization course. A I and II must be elected. Any combination fulfills the requirement. Consult counselor.
- +++ For EMR certification only.
- # For LDBD certification only.
- @ ED 300 is a prerequisite for ED 301, 302, and 307.
- @@ for MSPR certification only.
- * If all education requirements are completed, student may elect to do student teaching in the fall semester.
- ** For EMR and MSPR certification only.

Students wishing certification in Kindergarten through 8th grade must also take ED 305 and 306 (Kindergarten Meth. & Mat. I and II, 2 semester hours each).



BS (Physical Education and Health)@

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
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Freshman Year

BL 106 - Human Anat. & Physio. I 2	BL 108 - Human Anat. & Physio. II. 2
BL 107 - Human Anat. & Physio. I Lab. . 1	BL 109 - Human Anat. & Physio.II Lab . 1
ED 378 - Adm. Health Educ. + 3	ED 377 - Adm. Phys. Educ. + 3
TH 111 - Intro. to Theology 3	MT - Elective (MT 140 or above) 3
EN 101 - English Composition 3	PL 100 - Ethics as Intro. to Philosophy .. 3
History I (100-level Elective)++ 3	History II (100-level Elective)++ 3
Total 15	Total 15

Sophomore Year

ED 131 - Intro. to Sec. Ed. 3	ED 142 - Human Growth & Dev. II 3
ED 141 - Human Growth and Dev. I 3	ED 274 - Mental Hygiene 2
ED 371 - Gym & Tumbling+ 3	Philosophy Area II. 3
ED 381 - Tests & Eval. in Phys. Ed. . . . 2	ED - Elect one Phys. Ed. Coaching Course from Area I Coaching** 2
ED 386 - Kinesiology + 2	ED - Elect one Phys. Ed. Coaching Course from Area II Coaching** 2
ED 387 - First Aid & Safety + 2	Elective 3
MT 146 - Elementary Statistics. 3	Total 18
Total 18	Total 15

Junior Year

ED 271 - Intro.to Emot,Dist,Child. 2	ED 388 - Personal & Comm. Health+ . . . 2
ED 379 - Phys. Ed. Curriculum 2	PL 290 - Theory of Knowledge. 3
ED - Phys. Ed. Elective. 3	Humanities Elective (Lit.) 3
SO/TH 310 - Marriage & the Family . . . 3	Elective 2
Humanities Elective 3	ED 470 - Basic Aquatics 1
Theology Elective 3	ED 215 - Dev. Read,Sec. Schools 3
Total 16	ED 211 - Clinical Experiences 1
Total 16	Total 15

Senior Year

Philosophy Area IV 3	ED 403 - Student Teaching and Seminar. . 9
Theology Elective 3	ED 380 - Phys. Ed. Meth. & Mat. 4
Humanities Elective (Lit.) 3	
Humanities Elective 3	
ED 368 - Instr. Prep. CPR. 2	
Total 14	Total 13

- @ This program meets the State of Ohio certification requirements (Grades 7-12)
- + ED 377, 378 offered every other year alternating with ED 371, 386, 387, 388.
- ++ See Curricular Requirements, page 37.
- ** One or more of these courses is offered every year during the first and second semesters. By electing these cycled courses as they appear in the schedule, sophomores and juniors will meet state and University requirements, and their own needs. See counselor.

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

ED 385 - Physical Education in Elementary School	2
ED 389 - Adaptive Physical Education	3
ED 392 - Sensory Integration and Movement Education	2



BS (Teaching Biology and General Science)**

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
BL 110 - General Biology	2	BL 112 - General Zoology	2
BL 111 - Lab	2	BL 113 - Lab	2
CH 110 - General Chemistry I	3	CH 112 - General Chemistry II	3
CH 111 - Lab	1	CH 113 - Lab	2
MT 150 - Elem Calculus I	3	MT 156 - General Statistics	3
PL 100 - Ethics as Intro. to Phil.	3	TH 111 - Intro Theology	3
		EN 101 - English Composition	3
Total	14	Total	18
Sophomore Year			
BL 200 - General Botany	2	BL Elective	4
BL 201 - Lab	2	Theology Elective	3
PH 104 - College Physics I	3	PH 106 - College Physics II	3
PH 105 - Lab	1	PH 107 - Lab	1
ED 131 - Intro Sec Ed	3	Humanities Elective (Lit)	3
ED 141 - Growth & Develop I	3	ED 142 - Growth & Develop II	3
Humanities Elective (Lit)	3		
Total	17	Total	17
Junior Year			
Philosophy Area II	3	BL 230 - Genetics	3
PH - Our Universe	2	PH - Our Universe	2
PH - Lab	1	PH - Lab	1
ED 210 - Sec Curr Methods	6	ED 211 - Clinical Exper	1
History I (100-Level Elective)#	3	History II (100-Level Elective)#	3
		ED 215 - Develop Reading	3
		Theology Elective	3
Total	15	Total	16
Senior Year			
ED 403 - Student Teaching	9	BL 212 - Bacteriology	2
PL 290 - Theory of Knowledge	3	BL 213 - Lab	2
		Philosophy Area IV	3
		Theology Elective	3
		Humanities Electives	6
Total	12	Total	16

** This program meets the State of Ohio certification requirements (Grades 7-12).
 # See Curricular requirements, p 37.

BS (Montessori Education)

(Pre-Primary, K-8)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 101 - English Composition	3	BL 114 - Intro. to Life Science	3
History Western/NonWestern Civ. I@	3	BL 115 - Intro. to Life Science Lab	1
PH 114 - Intro. to Phys. Science	3	MT 140 - General Mathematics I	3
PH 115 - Intro. to Phys. Science Lab	1	PL 100 - Ethics as Intro. to Philosophy	3
TH 111 - Intro. to Theology	3	PO 110 - American Government	3
ED 300 - Intro. to Elem. Ed.	3	History Western/Non-western Civ. II@	3
ED 001 - Fresh. Elem. Field Exper. +	0		
Total	16	Total	16
Sophomore Year			
ED 141 - Human Growth & Dev. I	3	ED 142 - Human Growth & Dev. II	3
ED 382 - Elem. Health & Hygiene	2	ED 439 - Learn. & Behav. Disorders	2
MT 141 - General Mathematics II	3	ED 002 - Soph. Elem. Field Exper.	0
Theology Elective	3	Philosophy Area II	3
ED 351 - Mont. Ed.:Phil. Approach	3	ED 385 - Phys. Ed. Elem. School	2
AR 221 - Art in Elem. School	2	AR 221 - Art in Elem. School	2
MU 121 - Fund. of School Music	2	MU 122 - Music in Elem. School	2
		English Literature Elective	3
Total	18	Total	17
Junior Year			
ED 214 - Meth. of Teach. Reading	3	American History II	3
ED 301 - Elem. Meth. & Mat.: Science@@	2	ED 216 - Diag. Reading Instruction	3
ED 302 - Elem. Meth. & Mat.: Soc. Stud. @@	2	PL 290 - Theory of Knowledge	3
American History I	3	ED 226 - Children's Literature	3
ED 315 - Elem. Meth. & Mat.: Math	3	ED 455 - Mont. Met. & Mat. II	3
ED 454 - Mont. Meth. & Mat. I	3	ED 307 - Meth. & Mat.: LA & Ling. @@	3
Total	16	Total	18
Senior Year			
CA 101 - Oral Communication	3	ED 350 - Methods Observ. Children	3
Theology Elective	3	ED 457 - Mont. Curr. Des. Teach. Strat. II Pre-Primary	3
Philosophy Area IV	3	ED 459 - Mont. Preprimary Internsh. II	3
ED 456 - Mont. Curr. Des. Teach. Strat. I Preprimary	3	ED 200 - Adv. Comp. for Teachers	3
ED 458 - Mont. Preprimary Internsh. I	3	Theology Elective	3
ED 359 - Full Day Child Care Methods	3		
Total	18	Total	15

+ Must be taken concurrently with ED 300.

@ Students are required to take one semester of a Western civilization course and one semester of a non-Western course.

@@ ED 300 is a prerequisite for ED 301, 302, and 307.

NOTE: A fee of \$120 is required by the American Montessori Society for the AMS certification at the beginning of the internship.

BS (Montessori Education)

(Elementary, K-8)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hr.</i>
Freshman Year			
ED 300 - Intro. to Elem. Education	3	BL 114 - Intro. to Life Science	3
ED 001 - Fresh. Elem. Field Exper.	0	BL 115 - Intro. to Life Science Lab	1
EN 101 - English Composition	3	HS Western/Non-West. Civ. II@	3
PH 114 - Intro. to Phys. Science	3	MT 140 - General Mathematics I	3
PH 115 - Intro. to Phys. Science Lab	1	PO 110 - American Government	3
TH 111 - Intro. to Theology	3	PL 100 - Ethics as Intro. to Philosophy	3
HS Western/Non-West. Civ. I@	3		
Total	16	Total	16
Sophomore Year			
ED 141 - Human Growth & Dev. I	3	ED 142 - Human Growth & Dev. II	3
ED 351 - Mont. Educ. Phil. Approach	3	ED 353 - Montessori Mater. Overview	3
AR 221 - Art in Elem. School	2	AR 221 - Art in Elem. School	2
MU 121 - Fund. of School Music	2	MU 122 - Music in Elem. School	2
ED 382 - Elem. Health & Hygiene	2	ED 385 - Phys. Ed. in Elem. School	2
MT 141 - General Mathematics II	3	ED 002 - Soph. Elem. Field Exper.	0
Theology Elective	3	English Lit. Elective	3
		Philosophy Area II	3
Total	18	Total	18
Junior Year			
ED 214 - Meth. Teaching Reading	3	ED 226 - Children's Literature	3
ED 301 - Elem. Meth. & Mat.: Science@@	2	ED 216 - Diagnostic Read. Instruc.	3
ED 302 - Elem. Meth. & Mat.: Soc. Stud@@	2	ED 307 - Meth. & Mat.: LA & Ling.@@	3
ED 315 - Elem. Meth. & Mat.: Math	3	HS American History II	3
ED 439 - Learn. & Behav. Disorders	2	ED 355 - Adv. Montessori Mat. II	3
HS American History I	3	PL 290 - Theory of Knowledge	3
ED 354 - Adv. Montessori Mat. I	3		
Total	18	Total	18
Senior Year			
CA 101 - Oral Communication	3	ED 358 - Mont. Elem. Internsh. II	3
Theology Elective	3	ED 356 - Mont. Curr. Des. Teach. Strat. II: Elementary	3
Philosophy Area IV	3	ED 350 - Methods Observ. Children	3
ED 352 - Mont. Curr. Des. Teach. Strat. I: Elementary	3	Theology Elective	3
ED 200 - Ad. Comp. for Teachers	3		
ED 357 - Mont. Elem. Internsh. I	3		
Total	18	Total	12

+ Must be taken concurrently with ED 300.

@ Students are required to take one semester of a Western civilization course and one semester of a non-Western course.

@@ ED 300 is a prerequisite for ED 301, 302, 307.

NOTE: A fee of \$120 is required by the American Montessori Society for the AMS certification at the beginning of the internship.



MORTUARY SCIENCE

Most states require one or two years of general college coursework prior to admission into mortuary college. Xavier University, in conjunction with the Cincinnati College of Mortuary Science, is able to offer students a full range of lower and upper division courses to fulfill licensing requirements in any state; however, the student must ascertain the requirements for licensure in the state in which he/she will eventually be licensed. That may be done by contacting the State Board of Mortuary Science in that state or by contacting the Admissions Office of the Cincinnati College of Mortuary Science, which is located on the Edgecliff campus of Xavier University.

Xavier University offers a specific two-year curriculum for students who wish to earn the Bachelor in Mortuary Science degree from the Cincinnati College of Mortuary Science. The program consists of two years at Xavier followed by five academic quarters at the Cincinnati College.

It should be noted that Xavier and CCMS are two separate institutions and that students need to complete two admissions procedures. Xavier offers the pre-mortuary science curriculum, and CCMS offers the mortuary science curriculum and awards the Bachelor in Mortuary Science degree, which is a professionally oriented degree at the baccalaureate level.

CINCINNATI COLLEGE OF MORTUARY SCIENCE

MORTUARY SCIENCE CURRICULUM

First Quarter		Hrs.
MGT 100	Accounting	4
SOC 100	History of Funeral Principles & Practices	2
SOC 210	Social Aspects of Death and Dying	3
SCI 100	Color and Cosmetics	1
SCI 200	Anatomy I	4
SCI 210	Embalming Theory	3
	<hr/>	17
Second Quarter		Hrs.
MGT 210	Legal Aspects of Funeral Service	3
SOC 220	Contemporary Funeral Principles & Practices	3
SCI 110	Introduction to Chemistry	2
SCI 201	Anatomy II	4
SCI 220	Restorative Art	4
SCI 211	Embalming Theory II	3
SCI 230	Clinical Mortuary Practice	1
	<hr/>	20
Third Quarter		Hrs.
MGT 300	Merchandising in Funeral Service	4
MGT 310	Government and Its Role in Funeral Service	4
SOC 300	Effective Communications	3
SCI 300	Embalming Chemistry	3
SCI 212	Embalming Theory III	3
SCI 310	Pathology	2
SCI 231	Clinical Mortuary Practice II	1
	<hr/>	20
Fourth Quarter		Hrs.
MGT 400	Funeral Home Organization/Management	2
MGT 410	Finance and Pricing	3
MGT 420	Comparative Statutory Law, or	
MGT 421	Ohio Statutory Law	1
SOC 400	Psychology of Grief/Counseling Procedures	5
SOC 410	Current Issues	2
SOC 420	Research Project	1
SOC 430	Ethics	1
SCI 400	Pathogenic Microbiology	4
SCI 232	Clinical Mortuary Practice III	1
	<hr/>	20
Fifth Quarter		Hrs.
MGT 430	Pre-Need: Issue of the 1980's	3
SOC 440	Human Dignity in the Helping Professions	3
SCI 410	Advanced Seminar in Embalming/Restoration	3
SCI 420	Funeral Service Practicum	6
	<hr/>	15



THE BACHELOR OF SCIENCE (Nursing) (For Registered Nurses)

The Department of Nursing offers either a two-year upper division Bachelor of Science degree in nursing or a full-time eleven month accelerated option for registered nurses who are graduates of Associate Degree or Diploma Programs in nursing and currently licensed to practice in the United States. The program leading to a Bachelor of Science in Nursing degree (BSN) requires a liberal arts and science core curriculum as well as designated biological and social science courses as prerequisites to enter the nursing courses. The program assists the student in viewing individuals holistically and provides a base for graduate education in nursing. The curriculum focuses on meeting the specific learning needs of each student and on preparing professional nurses to practice nursing as generalists, as well as enhancing individualized interests.

Registered nurses enter as transfer students and receive assistance from faculty advisors in developing a personalized, individual schedule of study, either on a full- or part-time basis. All students must participate in mathematics placement examinations and satisfactorily demonstrate English Composition skills as part of University requirements.

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

1. Completion of the 120 credit requirements for a major in nursing:

Xavier University Core	47 credits
Nursing Department Core	28 credits
Nursing courses	45 credits

 - (a) transfer credit for comparable courses completed with a grade of "C" or better from an accredited university or college may apply to these credits;
 - (b) establishment of credit for previous education through challenge examinations may also apply; or
 - (c) completion of the listed required courses.
2. The pre-baccalaureate requirements must be completed before the student, who is enrolled in the college, may begin the baccalaureate nursing courses which are sequentially designed.
3. Faculty in the baccalaureate program in nursing leading to a professional degree have a commitment to themselves, to the University, and to society to maintain the standards of the profession. The Department of Nursing requires an overall grade point average of 2.5 for entrance to the upper division nursing courses and a grade of "C" or better in the biological sciences and professional courses.

NURSING PROGRAM (XAVIER CORE)

Humanities	12
English Literature	3
Electives	9
Mathematics	3
Math Placement	
Elementary Statistics	3
Science	8
Chemistry	8
Social Science	12
Psychology (General)	3
Sociology	3
Psychology (Developmental)	3
History	3
Philosophy	6
Ethical Theory as Intro. to Philosophy	3
Medical Ethics	3
Theology	6
Intro.	3
Elective	3
English Composition	3
(not included in core but may count as free elective)	

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NURSING CURRICULUM REQUIREMENTS

Xavier Core	47
Nursing Core	28
Science	19
Computer Science	1
Anatomy & Physiology	8
Advanced Physiology	3
Nutrition	3
Microbiology	4
Social Science	6
Sociology—upper division	3
Psychology elective	3
Free Elective	3
Nursing Courses	45
Lower Division	16
Upper Division	29

Total credits: 120

BSN (Nursing)

Recommended Sequence of Program

PRE-BACCALAUREATE NURSING*

<i>Requirements</i>	<i>Sem. Hrs.</i>	<i>Requirements</i>	<i>Sem. Hrs.</i>
PL 100 - Ethics as Intro. to Philosophy	3	TH 111 - Intro. to Theology	3
PS 101 - General Psychology	3	SO 101 - Intro. to Sociology	3
CH 116 - Prin. of Chemistry I	3	History Elective	3
CH 117 - Prin. of Chemistry I Lab	1	CH 118 - Prin. of Chemistry II	3
BL 106 - Anat. & Physio. I.	3	CH 119 - Prin. of Chemistry II Lab	1
BL 107 - Anat. & Physio. I Lab	1	BL 108 - Anat. & Physio. II	3
BL 210 - Microbiology	4	BL 109 - Anat. & Physio. II Lab	1
PS 231 - Developmental Psychology	3	BL 116 - Nutrition	3
English (Lit.)	3	Psychology Elective	3
NR 200 - Entry Level Baccalaur.credit 1	6	CS 124 - "BASIC" Programming	1
EN 101 - English Composition	3		

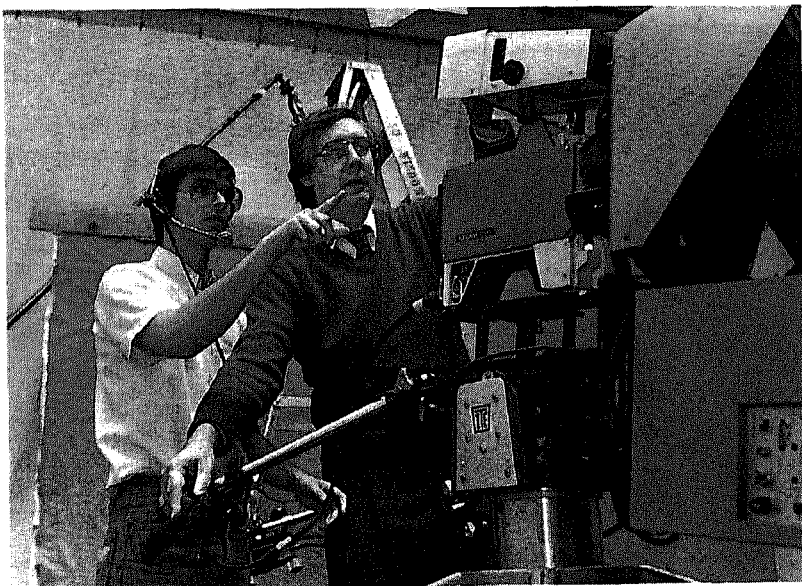
BACCALAUREATE NURSING TWO YEAR OPTION

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Junior Year			
NR 300 - Concepts & Philosophy	3	NR 302 - Nursing Process II	3
NR 031 - Nursing Process I Practicum	2	NR 032 - Nursing Process II Practicum	2
NR 301 - Nursing Process I	3	NR 304 - Cult. Diver. & Life Styles	2
BL 362 - Adv. Physiology	3	MT 146 - Elementary Statistics*	3
Theology Elective	3	PL 329 - Medical Ethics	3
Total	14	Total	13
Senior Year			
NR 400 - Intro. Nursing Research	2	NR 042 - Nursing Process IV Practicum	2
NR 401 - Nursing Process III	3	NR 402 - Nursing Process IV	3
NR 041 - Nursing Process III Practicum	2	NR 404 - Contemp. Issues in Nursing	2
Sociology (Upper Division)	3	Humanities Electives	6
Humanities Elective	3		
Total	16	Total	14

* All students must successfully pass the Mathematics placement test or complete the course MT 105 as part of University requirements.

ACCELERATED OPTION

Junior Year - same (May)		Summer Session	
<i>Requirements</i>	<i>Sem. Hrs.</i>	<i>Requirements</i>	<i>Sem. Hrs.</i>
NR 401 - Nursing Process III (challenge)	5	NR 402 - Nursing Process IV (3,2)	5
NR 400 - Intro. to Nursing Research (Self-paced CMI - tutorial)	2	NR 404 - Contemp. Issues & Nursing	2
Humanities (challenge)	3	Humanities Electives	6
Free Elective	3		
Upper Division Sociology (mini session)	3		
Total	16	13



THE BACHELOR OF SCIENCE (Social Work)

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

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

Students majoring in social work must complete the following courses: SW 104, 167, 216, 311, 315-316, 318, 325, 415-416, 417-418, 419-420, 424; PS 101, 232; SO 101; and two courses in Biology. A minimum of twelve semester hours in related divisional work as specified in Support Core Area I and II.

BSW (Social Work)

Recommended Sequence of Program

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
EN 101 - English Composition	3	English Literature	3
PL 100 - Ethics as Intro. to Phil.	3	TH 111 - Intro. to Theology	3
PS 101 - General Psychology	3	History Elective	3
SO 101 - Intro. to Sociology	3	CA 101 - Oral Communication*	3
BL 122 - Life, Lecture	2	BL 126 - Life, Lecture	2
BL 131 - Life Lab	1	BL 132 - Life Lab	1
Total		Total	
	15		15
Sophomore Year			
English Literature	3	Philosophy Area IV	3
PS 232 - Child Psychology	3	Theology Elective	3
Theology Elective	3	MT 146 - Elementary Statistics	3
PL 290 - Theory of Knowledge	3	SW 167 - Intro. to SW	3
History Elective	3	SW 216 - Life Cycle II: Adol.-Adult	3
SW 104 - Social Problems	3		
Total		Total	
	18		15
Junior Year			
EC 101 - Macroeconomics Principles	3	SW 316 - Social Policy	3
SW 311 - Research Methodology	3	SW 318 - Race Relations	3
SW 315 - Social Institutions	3	SW 415 - Theory/Practice I	3
MT - Elective	3	Support Core Area I**	3
Theology Elective	3	Humanities Elective	3
Total		Total	
	15		15
Senior Year			
SW 416 - Theory/Practice II	3	SW 325 - Women/Men	3
SW 417 - SW Field Instruction	4	SW 418 - SW Field Instruction	4
SW 419 - SW Seminar	2	SW 420 - SW Seminar	2
SW 424 - Research Paper	1	Support Core Area I**	3
Support Core Area II***	3	Support Core Area II***	3
Philosophy Area IV	3		
Total		Total	
	16		15

* Recommended as Humanities Elective

**Area I: Minimum of two courses
(Recommended)

PS 261	Social Psychology
PS 409	Group Dynamics
SO 242	Urban Sociology
SO 245	Appalachian in Urban Life
SO 260	Political Sociology
SO 290	Criminology & Penology
SW 210	Family & Society
SW 213	Deviant Groups
SW 307	Child Welfare
SW 330	Community Organizing

***Area II: Minimum of two courses
(Recommended)

CJ 101	Intro. to Criminal Justice
CJ 221	Juvenile Justice in a Changing Society
CJ 260	Current Issues in Criminal Justice
CJ 268	Overview of Contemp. Corrections
PO 101	Principles of Government
PO 110	American Government
PO 233	History of Political Theory
PO 332	Intro. to Public Administration



DEPARTMENTS

College of Arts and Sciences

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

Art (AR)

Staff: SR. BEIERSDORFER, chair; MS. KARAGHEUSIAN, MR. KENNEDY, MS. MARVIN, BR. PRYOR, MR. SCHMIDT, MS. WEHLING

Assisted by: MR. KRAMIG

Permanent Artist-in-Residence: Paul Chidlaw

Introductory courses, or equivalent with permission of the instructor, are prerequisites for all advanced courses.

Studio Courses

The following listings are studio courses in which two hours laboratory activities per week are required for each hour of credit. Provision is made for advanced study in all of these areas, so that students may enroll for a course repeatedly until the maximum number of hours is reached. Experiences for advanced students are developed according to capacities to comprehend problems and solutions; credit hours may be doubled with the permission of the specific instructor during a given semester.

- AR 100 **SEMINAR: FRESHMAN ART MAJORS** (1) An inquisition into the role of art in human life and society generating an experience in the "energenesis" of ideas through the study of the integral union of person, process, and product with the hope of providing a foundation for an integrated way of life. Corequisite: AR 101, unless exemption has been granted.
- AR 101 **DESIGN** (2) An experience in visual relationships for art majors in which the elements and principles of design are discovered through multi-sensory investigation. Corequisite: AR 100, unless an exemption has been granted. In the Spring Semester this course is offered for 3 cr hrs, and developed especially for non-art majors.
- AR 102 **DRAWING** (3) A development of the fundamentals—concepts and skills—of drawing through a broad range of aesthetic expressions and multi-sensory exercises.
- AR 103 **PAINTING** (3-9) An experience in totality through the language of form and color with the exploration of the material as primary concern using oils, polymers, mixed media; watercolor is offered every third year.
- AR 104 **PRINTMAKING** (3-12) An introductory study into intaglio, planographic, relief, or screen printing.
- AR 105 **SCULPTURE** (3) An introductory study into the artistic uses of three-dimensional model building.
- AR 106 **WEAVING** (3) An introductory course which enables a student to obtain the technical knowledge required to undertake weaving projects; stressing techniques, craftsmanship, and aesthetic values related to the use of fibers.
- AR 109 **CERAMICS** (3) A foundation in hand-forming and wheel-throwing techniques with an introduction to methods of decorating, glazing, and firing clay.

Art

- AR 202 **ADVANCED DRAWING (3-21)** Advanced studies emanating from a thorough investigation of both human and natural anatomy, abstraction as a conceptual/visual process, media, and thematic variations.
- AR 203 **ADVANCED PAINTING (3-21)** Advanced studies in oils, polymers, mixed media, or watercolors with the primary concern being to develop a personal visual expression after appropriate experimentation with different structures and techniques.
- AR 204 **ADVANCED PRINTMAKING (3-21)** The continuing investigation of an area begun in AR 104.
- AR 205 **ADVANCED SCULPTURE (3-21)** A continuation of experiences in sculpture, emphasizing personal meaning and permanent materials.
- AR 206 **ADVANCED WEAVING (3-21)** A continuation of experiences which allow students to develop in depth more difficult weaving and interlacement systems.
- AR 209 **ADVANCED CERAMICS (3-21)** An advanced approach with a concern for perfection in ceramic form, glaze application and formulation, as well as special projects determined by the teacher and student where appropriate.

Professional Courses

The following courses are professional courses for students seeking a specific career. They combine lecture, studio work and practice in their respective fields.

- AR 220 **INTRODUCTION TO ART THERAPY (3)** An overview of the history, theoretical basis, and current practice of art therapy including field trips to community agencies.
- AR 221 **ELEMENTARY SCHOOL ART (2-4)** An investigation of the philosophy, development and methods of art education with opportunity for two- and three-dimensional studio experience.
- AR 222 **INTRODUCTION TO FIBER ARTS (3)** Investigation of the fundamental means by which works may be created in fiber.
- AR 223 **SECONDARY SCHOOL ART (2)** An evaluation of the rationale, behavioral objectives, and organization of art activities at the secondary level.
- AR 224 **CLOTHING CONSTRUCTION (3)** Principles of pattern alteration and clothing construction techniques. Dressmaker tailoring.
- AR 225 **NEEDLE ARTS (3)** An introductory course which includes the history, materials, and basic techniques of needlework.
- AR 227 **ADVANCED NEEDLE ARTS (3-9)** The continuing investigation of work begun in AR 225, introducing more intricate techniques.
- AR 228 **TEXTILES I: FIBERS (3)** Properties and characteristics of natural and manmade fibers. Emphasis on identification, selection and care.
- AR 232 **TEXTILES II: FABRIC CONSTRUCTION (3)** Identification of textile constructions; methods of dyeing, functional and aesthetic finishes.
- AR 243 **ART THERAPY SEMINAR/PRACTICUM (3-12)** Student placement in community agencies, with bi-weekly discussion seminar, to provide on-site experience in planning and conducting art therapy programs under the guidance of a registered art therapist.
- AR 342 **GRAPHIC DESIGN (3)** Demonstration leading to working knowledge of the methods and procedures of the graphic designer. Emphasis on studio/agency hierarchical structure, and the materials, equipment, tools, and supplies used therein. Pre-requisite AR 101, unless exemption has been granted.
- AR 343 **ADVANCED GRAPHIC DESIGN (3-9)** Logical continuation of graphics with an attempt "to narrow the field" and explore the depths of selected projects. Students progress according to their own level of competence.

Lecture Courses

The following listings are lecture courses supplemented with slides, films, tours, and related experiences. They do not require studio activities.

- AR 130 **ART OF THE 20TH CENTURY** (2-4) An analysis of changes within the visual arts, planned for both art majors and non-art majors.
- AR 131 **HISTORY OF ART I** (3) A survey of the art of the Ancient World including Prehistoric forms and those of the Ancient Near East, and the Egyptian, Aegean, Grecian, Early Christian, and Byzantine periods.
- AR 132 **HISTORY OF AMERICAN ART** (3) A study of the history of American Art from the post-Civil War Period to the present with emphasis on the significant styles originating in the 20th century.
- AR 160 **HUMANITIES I** (3) Art, music, and literature from Prehistoric times to the Middle Ages, using feature-length films to dramatize cultural patterns.
- AR 231 **HISTORY OF ART II** (3) A survey of the art of the Middle Ages including Early Medieval, Romanesque, and Gothic styles.
- AR 260 **HUMANITIES II** (3) Art, music, and literature from the Renaissance to the 20th century, using feature-length films to dramatize cultural patterns.
- AR 261 **MEDIA AESTHETICS** (3) Basic principles of art and music appreciation, using recorded musical examples, slide-illustrated lecture-discussions, feature-length films, and museum visits.
- AR 331 **HISTORY OF ART III** (3) A survey of Renaissance and Baroque Art in Italy, Spain and Northern Europe.
- AR 360 **HUMANITIES III** (3) Selected topics in art, music, and literature from Prehistoric times to the Middle Ages using slide-illustrated lecture-discussions and museum visits.
- AR 431 **HISTORY OF ART IV** (3) A survey of eighteenth century Rococo, Romanticism, Realism, Impressionism, Post-Impressionism, and 20th century styles.
- AR 434 **THE MUSEUM IN MODERN SOCIETY** (2-6) A study for art majors and non-art majors of the development, function, and problems associated with the operation of Fine Art Museums—especially those in Cincinnati, Ohio.
- AR 436 **ART THERAPY SURVEY** (3-6) Advanced course in art therapy exploring goals and techniques with various client populations including emotionally disturbed adults, geriatrics, children, and adolescents.
- AR 460 **HUMANITIES IV** (3) Selected topics in art, music, and literature from the Renaissance to the 20th century using slide-illustrated lecture-discussions and museum visits.

Required Senior Courses

The following listings are required of senior art majors and designed especially for them; although non-art majors may enroll in AR 440.

- AR 440 **CRITICISM** (2) Study and discussion of historically important theories of beauty and their application to contemporary art movements.
- AR 441 **SEMINAR: SENIOR ART MAJORS** (2) Experiences and relationships involving the artist, community, and environment; acquaintance with record keeping, resume writing, slide portfolio development, gallery contracts, copyrighting, and available grants.
- AR 442 **SENIOR CONCENTRATION** (3-6) An intense in-depth study of selected studio field. Students pursuing the art education or the history of art concentration may submit a written thesis; students pursuing the art therapy concentration may substitute off-campus internship experience, working under direction of a qualified art therapist. Specific faculty approval necessary.

Biology

AR 450 **INDEPENDENT STUDY** (Credit to be arranged.) Problems related to department fields, although not specifically included in the catalogue, may be requested by the student and elected with the approval of the instructor.

Biology (BL)

Staff: SR. CHARTERS, *chair*; DR. CHAMBERS, DR. CUSICK, DR. FINKE, DR. GROSSMAN, DR. HEDEEN, MR. PETRI, DR. TAFURI

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

Assisted by: MRS. LOSEKAMP, MR. PECQUET

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

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

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

Lower Division Courses

- BL 100 **BIOLOGY I,II** (2) An introductory course treating the essential principles and concepts of plant and animal life: cellular, organismal, and ecological.
- BL 102
- BL 106 **HUMAN ANATOMY AND PHYSIOLOGY I** (2-3) The major human systems emphasizing, during this semester, the skeletal, muscular, and nervous systems.
- BL 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.
- BL 108 **HUMAN ANATOMY AND PHYSIOLOGY II** (2-3) Continuation of BL 106 stressing the circulatory, excretory, digestive, endocrine, and reproductive systems.
- BL 109 **HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY** (1) Continuation of anatomical approach of BL 107 with related physiological studies and demonstrations.
- BL 110 **GENERAL BIOLOGY** (2) Principles of molecular, cellular, and organismal biology, emphasizing the physiology and development of vertebrates. Preparation for most 200-level courses.
- BL 111 **GENERAL BIOLOGY LABORATORY** (2) Laboratory exercises demonstrating the principles of cellular biology and vertebrate physiology.
- BL 112 **GENERAL ZOOLOGY** (2) A continuation of BL 110. Invertebrate phyla: morphology, physiology, classification, life histories, and behavior. Topics in heredity, evolution, animal behavior, and ecology.
- BL 113 **GENERAL ZOOLOGY LABORATORY** (2) Each major phylum is studied with extensive use of living organisms. Genetic materials, fossils, invertebrate behavior patterns, and ecological principles are examined.
- BL 114 **INTRODUCTION TO THE LIFE SCIENCES** (3) Cells, heredity, ecology, and evolution. Plant and animal morphology and physiology, especially human. For BS (Elementary Education) curriculum only.
- BL 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.
- BL 116 **NUTRITION** (3) The study of the science of nutrition and its practical application to life.

Biology

- BL 120- **LIFE** (2) Humans, environment, and other living things. Cells to populations: heredity, evolution, ecology, development, reproduction, behavior, plants, microbes and human life.
- BL 128
- BL 131- **LIFE INVESTIGATION** (1) Each semester to accompany BL 100-102 or BL 120-133 128. Exercises, experiments, and field trips.
- BL 180- **ASCENT OF HUMANKIND** (2) The development of the major concepts that constitute our understanding of nature.
- BL 182
- BL 181- **ASCENT OF HUMANKIND LABORATORY** (1) Each semester to accompany BL 183 180-182. Exercises, experiments, and field trips.
- BL 195 **DIRECTED STUDY** Credit to be arranged.

Upper Division Courses

- BL 200 **GENERAL BOTANY** (2) The morphology, physiology, reproduction of representatives of each plant division are studied. Seed plants are stressed. Prerequisites: BL 120-133 or BL 110-113.
- BL 201 **GENERAL BOTANY LABORATORY** (2) Living and preserved specimens of representatives of the various plant groups are studied. Demonstration of pertinent principles of plant physiology.
- BL 210 **MICROBIOLOGY** (3) Basic study of microbes, their activities, control, role in disease and host immune responses.
- BL 211 **MICROBIOLOGY LABORATORY** (1) Methods of isolation and culture of the bacteria, fungi, and protozoa. Techniques of classification of these organisms.
- BL 212 **BACTERIOLOGY** (2) The morphology, classification, physiology, and genetics of bacteria including the impact of these organisms on man. Prerequisites: BL 110-113.
- BL 213 **BACTERIOLOGY LABORATORY** (2) The techniques for isolation, identification, culturing, and physiological study of bacteria.
- BL 220 **CELL BIOLOGY** (2) A contemporary view of cell structure and function. Prerequisites: BL 110-113.
- BL 222 **IMMUNOLOGY** (2) An introduction to the specific mechanisms by which the body reacts to foreign biological materials.
- BL 230 **GENETICS** (3) Principles of heredity. Genetic control of development. Molecular genetics. Population genetics. Prerequisites: BL 120-133 or BL 110-113.
- BL 231 **GENETICS LABORATORY** (1) Techniques of investigating fundamental genetic principles. The fruit fly as an experimental animal with studies of bacterial genetics.
- BL 240 **EVOLUTION** (2) Evidence for and the mechanisms of evolutionary processes. Prerequisites: BL 120-133 or BL 110-113.
- BL 244 **ANIMAL BEHAVIOR** (2) Relates innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisites: BL 120-133 or BL 110-113
- BL 250 **ECOLOGY** (3) The relationships between organisms and their living and non-living environments. Prerequisites: BL 120-133 or BL 110-113.
- BL 251 **ECOLOGY LABORATORY** (1) Laboratory and field exercises to illustrate ecological principles. Local aquatic and terrestrial habitats are investigated.
- BL 280 **TOPICS IN BIOLOGY** (1-3) Short-term courses designed to explore biological phenomena of current interest. Prerequisites: BL 120-133 or BL 110-113 and permission of Chair.
- BL 290 **SPECIAL PROBLEMS IN BIOLOGY** (1-4) Independent study in some specialized area of biology. Prerequisite: permission of Chair. Laboratory fee.

Biology

- BL 300 **GENERAL EMBRYOLOGY (2)** A description of vertebrate development and an analysis of the mechanisms of development, using vertebrates and invertebrates as examples. Prerequisites: BL 110-113.
- BL 301 **GENERAL EMBRYOLOGY LABORATORY (2)** A microscopic and experimental study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis, emphasizing the vertebrates.
- BL 310 **COMPARATIVE ANATOMY OF THE VERTEBRATES (2)** The morphology and morphogenesis of the vertebrates and their evolution. Prerequisites: BL 300-301.
- BL 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.
- BL 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.
- BL 321 **GENERAL HISTOLOGY LABORATORY (2)** A microscopic study of fixed materials employing routine and histochemical techniques to demonstrate cell, tissue, and organ morphology.
- BL 360 **VERTEBRATE PHYSIOLOGY (2)** Contraction, perception, digestion, metabolism, circulation, respiration, coordination and excretion in vertebrates. Prerequisites: BL 110-113, or permission of instructor.
- BL 361 **VERTEBRATE PHYSIOLOGY LABORATORY (2)** Exercises requiring careful preparation of living materials and observation of their functional responses using modern instrumentation.
- BL 362 **ADVANCED PHYSIOLOGY (3)** Functional process of the body, interrelationships of the systems, and some hereditary and immunological applications. For Nursing curriculum. Prerequisites: BL 106-109.
- BL 370 **BIOCHEMISTRY (3)** (CH 370).
- BL 371 **BIOCHEMISTRY LABORATORY (1)** (CH 371).
- BL 393 **ZOOS ARE CLASSROOMS (1)** Demonstrates how zoos may be used to teach biological principles.
- BL 394 **LOCAL RESOURCES FOR TEACHING LIFE SCIENCES (2)** Demonstrates how museums, nature centers, parks, and farms may be utilized to teach biology.
- BL 395 **DIRECTED STUDY** Credit to be arranged.
- BL 396 **THE EMERGENCE OF HUMANITY (1)** The biological and cultural evolution of humans.
- BL 398 **METHODS OF BIOLOGICAL RESEARCH I (1-2)** The gathering and interpreting of experimental data from living organisms. Prerequisites: senior standing and approval of Chair.
- BL 399 **METHODS OF BIOLOGICAL RESEARCH II (1-2)** A continuation of BL 398 emphasizing experimental design and controls together with the written and oral presentation of scientific reports.

Chemistry (CH)

Staff: DR. HOPKINS, *chair*, DR. BARKER, DR. JOHNSON, DR. MCLOUGHLIN, DR. O'NEILL, FR. THEPE.

Laboratory Instructors: DR. V. MAJETI, MRS. STROUD, MR. TODD.

Assisted by: DR. GLENN, DR. KLINGENBERG.

Lower Division Courses

- CH 102 **MEN, MOLECULES, AND THE ENVIRONMENT I (2)** A terminal course for the non-science major. Chemical principles as a basis for understanding life. Applications of interest to the modern student.
- CH 103 **MEN, MOLECULES, AND THE ENVIRONMENT I LABORATORY (1)** Chemical experimentation which illustrates the applications described in CH 102. Field trips will be included.
- CH 104 **MEN, MOLECULES, AND THE ENVIRONMENT II (2)** A continuation of CH 102 including a treatment of drugs, air and water pollution, disease, and chemotherapy.
- CH 105 **MEN, MOLECULES AND THE ENVIRONMENT II LABORATORY (1)** A continuation of CH 103.
- CH 107 **CHEMISTRY OF RADIOGRAPHIC FILM PROCESSING (1)** Historical development of X-ray film and darkroom accessories. The nature of processing solutions. Darkroom apparatus and techniques.
- CH 110 **GENERAL CHEMISTRY I (3)** Basic principles and descriptive facts. Atomic and molecular structure, states of matter, stoichiometry and chemistry of representative main group elements. A pre-professional course.
- CH 111 **GENERAL CHEMISTRY I LABORATORY (1)** Practice in the basic operations of chemical laboratory work. Experiments illustrate topics and principles covered in CH 110. One three-hour period per week.
- CH 112 **GENERAL CHEMISTRY II (3)** A continuation of CH 110. Subjects include thermodynamics, equilibrium, acids and bases, kinetics, redox processes, electrochemistry, transition metal chemistry, and qualitative inorganic analysis. Prerequisite: CH 110.
- CH 113 **GENERAL CHEMISTRY II LABORATORY (2)** A continuation of CH 111. The laboratory work includes qualitative and quantitative inorganic analysis. Two three-hour periods per week. Prerequisite: CH 111; Corequisite: CH 112.
- CH 115 **GENERAL CHEMISTRY II LABORATORY (1)** Laboratory to accompany CH 112 emphasizing quantitative measurements. Prerequisite: CH 111; Corequisite: CH 112.
- CH 116 **PRINCIPLES OF CHEMISTRY I (3)** A survey of General Chemistry.
- CH 117 **PRINCIPLES OF CHEMISTRY I LABORATORY (1)** A laboratory course to accompany CH 116.
- CH 118 **PRINCIPLES OF CHEMISTRY II (3)** A continuation of CH 116 covering Organic Chemistry and Biochemistry. Prerequisite: CH 116.
- CH 119 **PRINCIPLES OF CHEMISTRY II LABORATORY (1)** A laboratory course to accompany CH 118.
- CH 120 **PRINCIPLES OF PHYSICAL CHEMISTRY (3)** For students in the life sciences, education, and BS Chemical Science programs. Aspects of physical chemistry most relevant to living systems. Prerequisite: CH 112.
- CH 124 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I (2)** A terminal course for the non-science major. Chemical and physical principles underlying photography are presented.

Chemistry

- CH 125 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I LABORATORY** (1) Exemplification of principles taught in CH 124.
- CH 126 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II** (2) A continuation of CH 124 applying the principles to black and white photographic processes.
- CH 127 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II LABORATORY** (1) A continuation of CH 125.
- CH 151 **ANALYTICAL CHEMISTRY** (1) Lecture and Laboratory course. Basic concepts. Application of wet and instrumental analytical methods to substances of clinical interest. Prerequisite: CH 113.

Upper Division Courses

- CH 202 **SURVEY OF ORGANIC CHEMISTRY** (3) A one-semester course intended for non-majors. Prerequisite: CH 112.
- CH 203 **SURVEY OF ORGANIC CHEMISTRY LABORATORY** (1) A laboratory course to accompany CH 202.
- CH 204 **PHYSIOLOGICAL CHEMISTRY** (3) A study of biochemistry intended for non-majors. Prerequisite: CH 202.
- CH 205 **PHYSIOLOGICAL CHEMISTRY LABORATORY** (1) A laboratory course to accompany CH 204.
- CH 230 **PHYSICAL CHEMISTRY I** (3) An introduction to theoretical chemistry with emphasis on thermodynamics and chemical equilibrium. Prerequisite: CH 112; corequisite: PH 108, MT 171.
- CH 232 **PHYSICAL CHEMISTRY II** (2) A continuation of CH 230. Chief emphasis is on chemical kinetics and kinetic molecular theory. Prerequisite: CH 230.
- CH 235 **PHYSICAL ANALYTICAL LABORATORY I** (1) Measurement techniques applied to chemical systems. One four-hour period per week including lectures on principles of quantitative measurement. Prerequisites: CH 112; CH 113, or 115.
- CH 237 **PHYSICAL ANALYTICAL LABORATORY II** (1) Continuation of CH 235. One four-hour period per week. Prerequisite: CH 235.
- CH 239 **PHYSICAL ANALYTICAL LABORATORY III** (1) Laboratory experiments to demonstrate spectroscopic techniques. Students individually perform experiments of an analytical and physical chemical nature. Corequisite: CH 280.
- CH 240 **ORGANIC CHEMISTRY I** (3) An introductory course treating the structure, preparation, reactions, and properties of organic compounds. Prerequisite: CH 112.
- CH 241 **ORGANIC CHEMISTRY I LABORATORY**(1) The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: CH 113 or 115.
- CH 242 **ORGANIC CHEMISTRY II**(3) A continuation of CH 240 which extends the treatment of fundamental organic chemistry. Some special topics are included. Prerequisite: CH 240.
- CH 243 **ORGANIC CHEMISTRY II LABORATORY**(1) A continuation of the laboratory work of CH 241 with increased emphasis on the reactions and synthesis of organic systems. Prerequisite: Ch 241. Corequisite: CH 242.
- CH 260 **INORGANIC CHEMISTRY**(3) Modern theories of bonding and structure. Acid-base and redox chemistry based on thermodynamic principles. Coordination compound chemistry. Prerequisite: CH 330.
- CH 261 **INORGANIC CHEMISTRY LABORATORY**(1) Laboratory techniques and practice in synthetic inorganic chemistry. One laboratory period per week. Prerequisite: CH 260.

Chemistry

- CH 280 **INSTRUMENTAL ANALYSIS**(3) Discussion of modern analytical chemistry with emphasis on instrumentation and measurement techniques. Prerequisite: CH 232 or CH 120.
- CH 281 **INSTRUMENTAL ANALYSIS LABORATORY**(2) Practice in the use of chemical instrumentation as available. Two four-hour periods per week. Prerequisite: CH 280.
- CH 290 **CHEMICAL LITERATURE** (1) An introduction to the nature and use of the chemical literature, general research procedures, technical report writing, and computerized literature searches. Prerequisite: junior standing.
- CH 320 **RADIOCHEMISTRY** (2) Lecture on basic principles of radiochemistry and the methodology of instrumental techniques.
- CH 321 **RADIOCHEMISTRY LABORATORY** (1) Laboratory course to accompany CH 320.
- CH 330 **QUANTUM CHEMISTRY** (2) An introduction to quantum chemistry and molecular structure. Corequisite: CH 232.
- CH 340 **TOPICS IN ORGANIC CHEMISTRY** (2) An extension of fundamental organic chemistry to include more specialized topics not previously considered or extensively treated. Prerequisite: CH 242.
- CH 344 **TOPICS IN BIOORGANIC CHEMISTRY** (2) A course devoted to the synthesis, reactions, and structure of organic molecules involved in biological processes. Prerequisite: CH 242.
- CH 349 **ORGANIC SYNTHESIS AND ANALYSIS** (3) Synthesis and analysis of organic compounds. Emphasis on chromatographic and spectroscopic methods of identification and estimation. Prerequisites: CH 242 and 243.
- CH 370 **BIOCHEMISTRY** (3) A lecture course treating the chemistry and biochemistry of carbohydrates, lipids, and proteins. Special topics are included as time permits. Prerequisite: CH 242. (BL 370).
- CH 371 **BIOCHEMISTRY LABORATORY** (1) Laboratory techniques and representative experiments in biochemistry. Prerequisite: CH 370/BL 370.
- CH 390 **CHEMISTRY SEMINAR** (0) Required of all chemistry majors in junior and senior year.
- CH 392 **PROBLEMS IN CHEMISTRY** Credit by arrangement. Conferences and direction in library and/or laboratory work in some area of chemistry. A charge will be made for materials used.
- CH 395 **DIRECTED STUDY** Credit to be arranged.
- CH 398 **CHEMICAL RESEARCH I** (1) Directed reading and undergraduate laboratory research required of all chemistry majors in their junior or senior year. A charge will be made for materials used.
- CH 399 **CHEMICAL RESEARCH II** (1) A continuation and conclusion of research begun in CH 398. No additional charge for materials will be made. A written thesis is required as a final report of the activities of CH 398 and 399.

MA Secondary Education Program

Sixteen hours of courses must be selected from those listed below, including CH 506, CH 508, and CH 510

- CH 454 **KINETICS AND THERMODYNAMICS** (3)
- CH 460 **STRUCTURE OF ORGANIC COMPOUNDS** (3).
- CH 464 **APPLIED ORGANIC CHEMISTRY** (2).
- CH 470 **DESCRIPTIVE INORGANIC CHEMISTRY** (3).

Classics

- CH 480 **METHODS OF ANALYSIS** (2).
- CH 484 **INSTRUMENTAL ANALYSIS** (3).
- CH 490 **FUNDAMENTALS OF BIOCHEMISTRY** (3).
- CH 494 **INDUSTRIAL CHEMISTRY** (3).
- CH 506 **CHEMICAL INFORMATION AND REPORT WRITING** (2).
- CH 508 **METHODS OF TEACHING HIGH SCHOOL CHEMISTRY** (2).
- CH 510 **CHEMICAL RESEARCH** (2).

Classics

Staff: DR. RETTIG, *chair*; FR. FELTEN, DR. HARRISON, DR. MURRAY

Classical Culture (CL)

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

Lower Division Courses

- CL 130 **STUDIES IN EPIC** (3) An inquiry into the epic genre, the epic hero, and epic values through a careful reading of several ancient and medieval poems.
- CL 151 **GREEK ARCHAEOLOGY** (3) The major monuments of Greek antiquity explored as a backdrop to the art, history, and literature of ancient Greece.
- CL 152 **ROMAN ARCHAEOLOGY** (3) The major monuments of Roman antiquity explored as a backdrop to the art, history, and literature of ancient Rome.

Upper Division Courses

- CL 202 **HISTORY OF ANCIENT GREECE** (3) The prehistoric period to the Hellenistic Age (GK 202, HS 202).
- CL 206 **HISTORY OF ANCIENT ROME** (3) The legendary beginnings. The period of the republic. The first century of the principate. (HS 206, LT 206).
- CL 241 **GREEK LITERATURE IN TRANSLATION** (3) Masterworks of Classical Greece: the epic, comedy, tragedy, lyric, the historians and the philosophers.
- CL 242 **CLASSICAL TRAGEDY** (3) A study of the tragic form, its poetry, and its use of myth through careful reading of several plays of Aeschylus, Sophocles, Euripides, and Seneca.
- CL 244 **LATIN LITERATURE IN TRANSLATION** (3) Great works of ancient Rome: drama, epic, didactic poetry, lyric, satire, the "novel," history.
- CL 246 **CLASSICAL COMEDY AND SATIRE** (3) A study of ancient classical writings that may be called comic either in a narrow technical sense or in a broader sense so as to include satire. Careful reading of selected plays of Aristophanes, Plautus, Terence, and from the works of non-dramatic writers such as Catullus, Juvenal, Martial, Petronius, and the Greek Anthology.
- CL 248 **CLASSICAL MYTHOLOGY** (3) The major myths reflected in ancient Greek and Latin literature. The meaning of the myths. Their influence on later ages.
- CL 331 **THUCYDIDES** (3) An in-depth study of fifth-century Greece from the Athenian point of view, and a study of the method, presuppositions, and scope of the historian Thucydides. Text in translation.
- CL 333 **MEN AND IDEAS IN GREECE AND ROME** (3) Cultural ideals and values which shaped and motivated the institutions and persons of Greece and Rome. The outstanding personalities who typified or actually helped shape those values.

- CL 345 **INTRODUCTION TO THE CHURCH FATHERS** (3) The first centuries of Christianity as they are reflected in the patristic writers. The chief Fathers. The evolution of doctrine. The unfolding of revelation. The consciousness of the indwelling spirit. (TH 345).
- CL 371 **PLATO: THE REPUBLIC** (3) A careful reading of Plato's *Republic* in translation to uncover what he said and what he meant and its relevance to our own lives, thoughts and values.
- CL 395 **DIRECTED STUDY** Credit to be arranged.

Greek (GK)

Lower Division Courses

- GK 111 **ELEMENTARY GREEK I** (3) One semester. The ancient Greek language. Syntax, vocabulary, and morphology. The skills necessary to read ancient Greek.
- GK 112 **ELEMENTARY GREEK II** (3) One semester. A continuation of GK 111.
- GK 121 **INTRODUCTION TO GREEK LITERATURE** (3) For students who have had six hours of college level Greek or its equivalent. Selected readings from various Greek authors and genres.
- GK 151 **HOMER** (3) Readings from *The Iliad*.
- GK 152 **HOMER** (3) Selected portions of *The Odyssey*.
- GK 162 **EURIPIDES: MEDEA** (3)
- GK 172 **PLATO** (3) *The Apology* and other selections.

Upper Division Courses

- GK 202 **HISTORY OF ANCIENT GREECE** (3) (CL 202, HS 202)
- GK 251 **HOMER: ILIAD** (3) A study of the Greek epic.
- GK 252 **HOMER: ODYSSEY** (3)
- GK 260 **SOPHOCLES** (3) *The Oedipus Tyrannus* and *Antigone*.
- GK 262 **EURIPIDES** (3)
- GK 331 **THUCYDIDES** (3-4)
- GK 363 **AESCHYLUS** (3)
- GK 371 **PLATO: THE REPUBLIC** (3)
- GK 388 **HISTORY OF GREEK LITERATURE** (3)
- GK 397 **SPECIAL STUDY** Credit to be arranged. Greek poetry.
- GK 398 **SPECIAL STUDY** Credit to be arranged. Greek prose.
- GK 399 **SENIOR COMPREHENSIVE REVIEW** (2)

Latin (LT)

- LT 111 **ELEMENTARY LATIN I** (3) The ancient Latin language. Syntax, vocabulary, and morphology. The skills necessary to read Latin.
- LT 112 **ELEMENTARY LATIN II** (3) A continuation of LT 111 with readings from simpler Latin texts.
- LT 121 **VERGIL: AENEID I-VI** (3) For students who have had six hours of college level Latin or its equivalent. Selected passages with special emphasis on the development of students' knowledge of Latin.

Classics

- LT 122 **SELECTED LATIN READINGS** (3) For students who have had six hours of college level Latin or its equivalent. Short readings from various Latin authors and genres.
- LT 123 **SELECTED LATIN POETRY** (3) For students who have had nine hours of college Latin or its equivalent. A selection of poems or poetic passages from various Latin poets and poetic genres.
- LT 128 **CICERO** (3) The *De Senectute* and/or the *De Amicitia*.
- LT 131 **HORACE: ODES** (3)
- LT 153 **VERGIL: AENEID VII-XII** (3)
- LT 161 **PLAUTUS AND TERENCE** (3) Selected Readings.

Upper Division Courses

- LT 206 **HISTORY OF ANCIENT ROME** (3) (CL 206, HS 206)
- LT 211 **LIVY** (3)
- LT 214 **LATIN PROSE STYLE** (3)
- LT 221 **CICERO: PRO MILONE** (3)
- LT 222 **INTRODUCTION TO A STUDY OF THE LATIN FATHERS** (3)
- LT 231 **HORACE: ODES** (3)
- LT 251 **VERGIL: AENEID** (3)
- LT 261 **ROMAN COMEDY** (3)
- LT 301 **ROMAN ORATORY** (3)
- LT 308 **CAESAR** (3)
- LT 312 **TACITUS: THE ANNALS** (3)
- LT 319 **CICERO: LETTERS** (3)
- LT 328 **CICERO: ESSAYS** (3)
- LT 331 **HORACE: SATIRES, EPISTLES** (2-3)
- LT 332 **CATULLUS** (3)
- LT 338 **MEDIAEVAL LATIN** (3)
- LT 356 **ROMAN SATIRE** (3)
- LT 388 **HISTORY OF LATIN LITERATURE** (3)
- LT 391 **LUCRETIVS** (3)
- LT 397 **SPECIAL STUDY** Credit to be arranged. Latin poetry.
- LT 398 **SPECIAL STUDY** Credit to be arranged. Latin prose.
- LT 399 **SENIOR COMPREHENSIVE REVIEW** (2-3)

Communication Arts (CA)

Staff: FR. HAGERTY, *chair*; DR. ANDERSON, DR. DAILY, MS. DYE, MR. HARMON, DR. KING, MR. SMITH

Assisted by: MR. ANTHONY, MR. BAGGS, MR. BENKERT, MS. BOYLE, MS. BROCKMAN, MR. CAREY, FR. FLYNN, MR. HINGSBERGEN, MR. LABARBARA, MS. LOSE, MS. MIMS, MS. PEARCE, DR. POHLMAN, MR. PRICE, BR. PRYOR, MR. SCHRECK, MS. SHAW, MS. SLAUGHTER, FR. THEPE, MS. WEILAND, MS. WELKER, MR. ZAHN.

Basics

- CA 101 **ORAL COMMUNICATION** (3) Speech fundamentals as applied to interpersonal, public, and group speaking. Basic course.
- CA 102 **VOICE AND DICTION** (3) Principles of voice production, diction, and oral reading. Recommended for students with professional aspirations.
- CA 122 **WRITTEN COMMUNICATIONS AND REPORTS** (3) Basic written communication. Effective business letters and reports.
- CA 200 **INTERPERSONAL COMMUNICATION** (3) Understanding of and classroom practice in effective communication between persons.
- CA 202 **ORGANIZATIONAL COMMUNICATION** (3) Employee communication policy, methods and techniques relative to public relations and marketing communications in business and industry.
- CA 203 **COMMUNICATION THEORY** (3) Nature, purpose, scope, and process of communication. Models, learning, language, and certain theories.
- CA 204 **THEORIES OF MASS MEDIA** (3) Models and processes of mass communication. Reciprocal effects of such media as TV, advertising, film, cartoons, comic strips, radio, records, etc.
- CA 205 **ETHICS OF MASS COMMUNICATION** (3) Important ethical and legal issues which affect contemporary mass communication.
- CA 206 **EFFECTIVE WRITING** (3) Creative solutions to writer's block in a variety of practical and theoretical situations. Primarily designed for CA majors.
- CA 260 **PRESENTATIONAL SPEAKING** (3) Preparation and delivery of oral presentations for business and professions. Emphasizes persuasion, evidence, organized sequences, and uses of multimedia aids.
- CA 263 **GROUP DYNAMICS** (3) Dynamic and participative strategies in group training skills. Learn by participating and doing.

Film—Photography

- CA 207 **PHOTOGRAPHY I** (3) The camera—structure and use. Composition, pictorial arrangement, techniques in shooting. Optics and exposure, emulsions, filters, and lighting. Techniques of laboratory developing.
- CA 208 **PHOTOGRAPHY II** (3) Lecture-lab experience to improve skills in creating and developing quality photographs. Prerequisite: CA 207 or approval of the instructor.
- CA 211 **ART OF THE FILM** (3) Film as a modern art form, treating sound, color, light, motion, director's style, and film analysis.
- CA 212 **FILM HISTORY AND DIRECTORS** (3) Motion picture history with a focus on certain great directors.
- CA 213 **MEDIA AESTHETICS** (3) Principles of visual and aural aesthetics especially as applied to painting, music, and motion pictures.

Communication Arts

- CA 214 **FILM CRITICISM** (3) Cultivating criteria for judging films from viewing and analysis. Leading theories studied.
- CA 215 **NON-FICTION FILM** (3) The development of the non-fiction film from Flaherty to "cinema of truth." Current documentaries on controversial topics will be stressed.
- CA 265 **HISTORY OF THE HORROR FILM** (3) An analysis and history of the horror film.
- CA 266 **HISTORY OF THE WESTERN FILM** (3) An analysis and history of the western film

Radio-Television

- CA 218 **FUNDAMENTALS—RADIO-TV** (3) History and current developments in broadcasting. Basic technical matters which dictate the shape and form of the medium.
- CA 219 **AUDIO PRODUCTION AND TECHNOLOGY** (3) Technical and theoretical basis. Projects in learning techniques of tape editing, special effects, commercial production, and documentary production. Lab.
- CA 220 **BROADCAST ANNOUNCING** (3) Career qualifications. Principles, preparation, and delivery of announcements, newscasts, and other projects. Lab. Prerequisites: CA 102, 219, or approval of chair.
- CA 221 **VIDEO PRODUCTION AND TECHNOLOGY** (3) Technology and operation of video equipment, including cameras, film chain, switcher, video tape, lighting, and associated equipment. Basic video production techniques. Lab—TV Studio. Prerequisite: CA 219, or approval of chair.
- CA 222 **BROADCAST MANAGEMENT** (3) Study of station management, organization, and operational techniques. Prerequisite: CA 218.
- CA 223 **TV DIRECTING** (3) Procedures and technology of program production by the director and crew. Role of director, control-room directing, and team cooperation. Lab—TV Studio. Prerequisite: CA 221.
- CA 224 **ADVANCED TV PRODUCTION** (3) Theories and techniques of control-room directing: staging, pacing, acting, dramatic effect, audience influence, and analysis of professional productions. Prerequisites: CA 221, 223.
- CA 225 **RADIO-TV PROGRAMMING** (3) The practical and theoretical world of program operation in radio and television. Techniques of format establishment, public affairs programming, FCC obligations. Prerequisite: CA 218.
- CA 226 **BROADCAST SALES** (3) Giving the potential sales representative the proper background to make sales calls, understand the media business from a sales standpoint, and overcome common obstacles. Prerequisite: CA 218.
- CA 228 **ADVANCED AUDIO PRODUCTION** (3) Continuation of CA 219 for students interested in professional audio engineering. Prerequisite: CA 219 and approval of chair.
- CA 229 **CABLE TELEVISION** (3) Role of Cable Television in contemporary society. Planning and executing videotape programs for access programming.
- CA 230 **TV: A CREATIVE TOOL** (3) Creative aspects of TV production: photographs, film, graphics, lighting, animation, editing, and special effects—electronic and otherwise. Prerequisite: CA 221 or equivalent.
- CA 231 **TV: A/B EDITING AND EFFECTS** (3) Special effects and advanced equipment operation. Prerequisite: CA 221 or approval of chair.
- CA 232 **RADIO LAB** (1) Lab #1. Experience under station WVXU-FM operation conditions. Prerequisites: CA 218, 219, 221.
- CA 233 **TELEVISION LAB** (1) Lab #2. Experience in TV Studio for R-TV area. Prerequisites: CA 218, 219, 221, 232.

Communication Arts

- CA 234 **ADVANCED LAB** (1) Advanced Lab #3 in Radio-TV area. Prerequisites: CA 218, 219, 221, 232, 233.

Broadcast Journalism

- CA 219 **AUDIO PRODUCTION AND TECHNOLOGY** (3) See description under Radio-Television.
- CA 237 **SURVEY: JOURNALISM—PUBLIC RELATIONS** (3) History and cultural roles of print journalism, broadcast journalism, and public relations in American society. Social, political, and regulatory effects of media.
- CA 240 **NEWS REPORTING** (3) Event coverage, research, interviewing, and other techniques associated with covering local events under deadline pressure.
- CA 241 **RADIO-TV NEWSWRITING** (3) R-TV journalism. Genesis and development of broadcasting news. Skill development in news writing techniques using the typing lab. Prerequisites: CA 219, 240 and some typing proficiency.
- CA 242 **RADIO REPORTING AND PERFORMANCE** (3) Broadcast journalism. Gathering and reading of news, in-person and telephone interviews. Type editing. News delivery styles. "Air-check" tape. Lab. Prerequisite: CA 241.
- CA 243 **TELEVISION REPORTING AND PERFORMANCE** (3) Television news techniques. Field and studio videotape reports. Videotape editing. Lab. Prerequisite: CA 242.

Public Relations

- CA 237 **SURVEY: JOURNALISM-PUBLIC RELATIONS** (3) See description under Broadcast Journalism.
- CA 238 **NEWSWRITING** (3) Theory and practice of news reporting and writing for metro and suburban newspapers and for business and special interest publications. Computer technology, journalism, ethics, and libel. Prerequisites: CA 237 and some typing proficiency.
- CA 240 **NEWS REPORTING** (3) See description under Broadcast Journalism.
- CA 251 **PUBLIC RELATIONS IN MODERN SOCIETY** (3) Concepts and practices of public relations. Emphasis on research, program planning, communications, and evaluation. Implications of social change and rise of consumerism. Prerequisite: CA 237 or approval of instructor.
- CA 253 **TECHNIQUES OF PUBLICITY** (3) Practice skills and ethics likely to be used in a planned public relations campaign. Prerequisite: CA 251.
- CA 254 **PUBLIC RELATIONS MANAGEMENT** (3) Public relations as a management function in business, non-profit organizations, and government. Case studies in research and planning, fund-raising and development, staff management. Comparison of corporate and counselor public relations. Prerequisite: CA 253.

Communications—Marketing

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

Internships

Internships are available to advanced students only, on application to and approval of Chair before registration. They require approximately ten hours of work weekly for three hours of credit.

- CA 276 **INTERNSHIP IN J-PR** (3)
- CA 277 **INTERNSHIP IN R-TV** (3)

Computer Science

CA 278 **INTERNSHIP IN F-PH** (3)

CA 279 **INTERNSHIP IN CA-MK** (3)

Workshops and Institutes

CA 281 **WORKSHOP: INTRODUCTION TO PHOTOGRAPHY** (2)

CA 284 **WORKSHOP: TELEVISION AND EDUCATIONAL RESOURCES** (2)

CA 285 **WORKSHOP: INTERPERSONAL COMMUNICATION** (2)

CA 299 **SPECIAL STUDY** Credit to be arranged. Applicable to all areas and to all students.

Educational Media

CA 290 **AUDIOVISUAL COMMUNICATION** (3) (ED 290)

CA 291 **VISUAL COMMUNICATION DESIGN** (3) (ED 291)

CA 292 **ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS** (3) (ED 292)

CA 293 **INSTRUCTIONAL TV PRODUCTION** (3) (ED 687)

Computer Science (CS)

Staff: DR. BERRY, *director*; MR. ALAM, DR. BREWER, DR. DELANEY, MR. EISEMANN

Assisted by: MS. OGANOWSKI, and members of the Mathematics Department

Students without a strong background in high school mathematics often experience difficulty in computer science courses. All courses require out-of-class time in the computer center.

See Information and Decision Sciences for additional computer courses.

Lower Division Courses

CS 113 **FORTRAN PROGRAMMING** (3) Introduction to programming in FORTRAN. Non-scientific applications stressed. Prerequisite: Secondary math proficiency, cf. page 37. (IS 368).

CS 124 **"BASIC" PROGRAMMING** (1) Introduction to the Xavier timesharing system, elements of the "BASIC" language, programming elementary problems. Prerequisite: Secondary math proficiency, cf. page 37. Students who have completed IS 100 should not take CS 124.

CS 130 **COMPUTER PROGRAMMING – BASIC** (3) Problem solving. Algorithm development and verification, and structured programming. Elementary data manipulation, use of files, and machine organization. Prerequisite: Secondary math proficiency, cf. page 37.

CS 132 **COBOL PROGRAMMING** (3) See IS 364. Prerequisite: CS 171.

CS 134 **"BASIC" II** (1) Continuation of CS 124. Selected additional features of the "BASIC" language. Prerequisite: CS 124.

CS 170 **COMPUTER SCIENCE I** (3) Problem solving, algorithm development and verification, programming in a block structured language, and machine structure. Elementary data manipulation, procedures, functions, arrays, fundamental algorithms, and the use of files. Prerequisite: Secondary math proficiency cf. page 37.

CS 171 **COMPUTER SCIENCE II** (3) Structured programming with an emphasis on program design and problem solving. Procedures, functions, data types, and pointers. Recursion, files, searching and sorting, and simple data structures. Prerequisite: CS 170.

Upper Division Courses

- CS 244 **ELECTRONICS II** (2) Digital components and circuits, microcomputer architecture and machine language programming, interfacing circuits. Prerequisite: PH 242 (PH 244).
- CS 245 **ELECTRONICS LABORATORY** (1) Laboratory accompanies CS 244 Prerequisite: PH 243 (PH 245).
- CS 252 **ADVANCED COBOL** (3) See IS 365. Prerequisite: CS 132 (IS 364).
- CS 255 **ARCHITECTURE AND ASSEMBLER LANGUAGE** (3) Machine language, assembler programming, CPU and memory organization. Data and instruction representations, control and flow, arithmetic and logical operations, elementary input/output, and dumps. Prerequisite: CS 170 (IS 360).
- CS 256 **ADVANCED ASSEMBLER** (3) Assembler programming with additional assembler features and methods of program organization. Subroutines and macros. Prerequisite: CS 255. (IS 361).
- CS 303 **NUMERICAL METHODS** (3) Measures of accuracy, sources of error, computational aspects of function evaluation and approximation, systems of linear equations, non-linear equations, numerical differentiation and integration, and solutions to differential equations. Prerequisites: CS 170 or equivalent, MT 171 (MT 303).
- CS 325 **DATA STRUCTURES** (3) Internal and external information storage and manipulation. Arrays, stacks, queues, linked list, trees, graphs, sorting, searching, elementary complexity analysis, and various applications. Prerequisite: CS 171, MT 208.
- CS 335 **OPERATING SYSTEMS** (3) Operating software and hardware; design and implementation. Process control and scheduling, concurrency, multiprocessing, memory management, networks and system security. Prerequisites: CS 255, 325. Recommended Corequisites: CS 244, 245.
- CS 350 **DESIGN AND ANALYSIS OF ALGORITHMS** (3) A study of algorithms chosen from various areas, including: sets, graphs, lexicographic orderings, sorting, pattern matching, external file management and matrix manipulation. The mathematical analysis of the time and space requirements of these algorithms. Prerequisite: CS 325.
- CS 352 **DATA PROCESSING INFORMATION SYSTEMS** (3) See IS 352. Prerequisite: consent of instructor. (IS 352).
- CS 355 **COMPILER/PROGRAMMING LANGUAGE DESIGN** (3) Study of grammars, syntax, semantics, interpreters, and compilers. Construction of a simple language and a compiler/interpreter. Prerequisites: CS 255, 325
- CS 365 **MICROCOMPUTERS** (3) Microcomputer architecture, communication protocols, microcomputer machine and assembler language programming. Prerequisites: MT 208, also CS 171, CS 255 or consent of instructor.
- CS 377 **ARTIFICIAL INTELLIGENCE** (3) Methods of problem solving in AI. Heuristics, evaluation functions, search strategies, and a survey of a number of AI projects. Prerequisite: CS 325.
- CS 390 **SEMINAR AND PROJECT** (3) Design, programming, verification, documentation, and presentation of a significant computer project. Prerequisite: Senior computer science major.
- CS 397 **SPECIAL READING IN COMPUTER SCIENCE.**

Economics (EC)

Staff: DR. KUZINA, *chair*; MS. BERTAUX, DR. H. BRYANT, DR. COBB, DR. DONNELLY, DR. HAILSTONES, DR. J. HAYES, DR. MARMO, DR. MASTRIANNA, DR. RANKIN, DR. WEINBERG, DR. ZIMMERMAN.

Assisted by: MR. BIAS, DR. DREESE, DR. HIBNER, DR. THALHEIMER.

For course descriptions, consult the College of Business Administration section, on pages 226-227.

English (EN)

Staff: DR. GETZ, *chair*; FR. CONNOLLY, DR. DESHAZER, DR. FINKELSTEIN, DR. FONTANA MR. GLENN, DR. HART, DR. WENTERSDORF, MR. WESSLING, MR. T. WILLIAMS.

Assisted by: MR. BARTH, MS. BETTMAN, MR. CAHILL, MS. CHENG, MS. EDWARDS, SR. FLEMING, MR. HENSON, MR. KORAL, MS. WALTERS, MS. WARNKEN.

Lower Division Courses

- EN 101 **ENGLISH COMPOSITION** (3) Instruction in grammar, usage, diction, organization, and style. Frequent short writing assignments are required.
- EN 115 **RHETORIC** (3) Intensive theoretical and practical study of discourse. Recommended for students who have acquired basic writing skills. Required of English majors.
- EN 116 **NARRATIVE** (3) Story telling from its pre-literate oral forms to the emergence of the inscribed and printed forms of allegory, romance, and novel. Required of English majors.
- EN 121 **STUDIES IN POETRY** (3)
- EN 122 **STUDIES IN DRAMA** (3) (TR 310).
- EN 124 **STUDIES IN FICTION** (3)
- EN 125 **STUDIES IN SATIRE** (3)
- EN 127 **INTRODUCTION TO LITERATURE** (3)
- EN 128 **STUDIES IN BLACK LITERATURE** (3)
- EN 130 **STUDIES IN EPIC** (3) (CL 130).
- EN 132 **STUDIES IN WOMEN'S LITERATURE** (3)
- EN 135 **STUDIES IN SHAKESPEARE** (3) (TR 401).

Upper Division Courses

- EN 200 **ADVANCED COMPOSITION FOR TEACHERS** (3) Current theories on the teaching of writing in junior and senior high school. Instruction and practice in expository writing. (ED 200).
- EN 201 **EXPOSITORY AND RESEARCH WRITING** (3)
- EN 203 **HISTORY OF THE ENGLISH LANGUAGE** (3) Origins and development of the English language from c. 450 to the present. Etymology and vocabulary, syntax, semantics, and phonology.
- EN 206 **LINGUISTICS** (3) Contemporary theory concerning the nature and origin of language. Phonology, morphology, syntax, and cultural linguistics. (ED 206).
- EN 208 **WRITING INTERNSHIP** (3) Available only by arrangement with chair of English Department. Prerequisite: upper division writing elective.
- EN 209 **CREATIVE WRITING** (3) Instruction and intensive practice in the writing of poetry and fiction.

- EN 210 **ADVANCED CREATIVE WRITING** (3) Individualized, directed work on creative writing projects. Prerequisite: EN 209 or its equivalent.
- EN 211 **POPULAR WRITING** (3) Critical study of popular cultural forms and instruction in the writing of them.
- EN 212 **TECHNICAL WRITING** (3)
- EN 221 **POETRY** (3) An intensive critical and historical study of British and American poetry. Required of English majors.
- EN 242 **CLASSICAL TRAGEDY** (3) (CL 242).
- EN 246 **CLASSICAL COMEDY AND SATIRE** (3) (CL 246).
- EN 250 **WORLD DRAMA** (3) Not open to students who have had EN 122.
- EN 251 **WORLD FICTION** (3).
- EN 255 **THE COMIC SPIRIT IN WORLD LITERATURE** (3) Dramatic comedy from various world literatures. Reading in theory of comedy.
- EN 262 **CRIME FICTION** (3) Study of American crime fiction—Hammet, Chandler, Cain—and their European and American descendants.
- EN 263 **SCIENCE FICTION** (3) A critical and generic approach to science fiction and fantasy narratives.
- EN 265 **LITERARY MONSTERS** (3) The monster as symbolic figure from Dante to the twentieth century.
- EN 269 **MYTH IN WORLD LITERATURE** (3).
- EN 270 **LITERATURE OF WAR AND PEACE** (3) The representation and interpretation of war and peace in European and American literature.
- EN 273 **MODERN LITERATURE AND CHRISTIANITY** (3) Modern literary texts that express varied Christian perspectives or that foreground Christianity as a problematic subject.
- EN 275 **MARXISM AND LITERATURE** (3) Marxist literary theory and its application to particular texts and literary-historical problems.
- EN 276 **FEMINISM AND LITERATURE** (3) Feminist literary criticism: its methods, goals, and impact. Application of theory to texts of different genres, periods, nations.
- EN 277 **WOMEN AND CREATIVITY** (3) The struggle for creative identity and inspiration in literature and art by modern women.
- EN 278 **MOTHERS AND DAUGHTERS IN LITERATURE** (3) Topics include the complexity of the mother-daughter bond and mothers as muses for their literary daughters in the writings of modern women.
- EN 279 **WOMEN IN DRAMA** (3) Plays by and about women; a critical and cultural examination of women in theatre history.
- EN 291 **MODERN JEWISH FICTION** (3) The narrative tradition of European and American Jewish writers from the late nineteenth century to the present.
- EN 292 **SOUTHERN WRITERS** (3) The South as culture, geography, and metaphor through the vision of selected southern poets, dramatists, and prose writers.
- EN 310 **CHAUCER: THE CANTERBURY TALES** (3)
- EN 315 **EARLY ENGLISH LITERATURE** (3) Critical and cultural study of classic texts from *Beowulf* to Spenser.
- EN 325 **SHAKESPEARE'S MAJOR PLAYS** (3) (TR 409).
- EN 326 **SHAKESPEARE: HISTORIES AND COMEDIES** (3) (TR 402).

English

- EN 327 **SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES** (3) (TR 403)
- EN 328 **ENGLISH RENAISSANCE DRAMA** (3) Non-Shakespearean drama of the Elizabethan and Jacobean periods: Marlowe, Jonson, Webster and others.
- EN 330 **SEVENTEENTH-CENTURY LITERATURE** (3) The poetry and prose of the 17th century from Donne to Milton.
- EN 341 **THE AGE OF EXPERIENCE** (3) Poetry, drama, and fiction of the late 17th and 18th century: Dryden, Pope, Swift, Defoe, Sterne.
- EN 350 **ROMANTIC LITERATURE** (3) English romantic poetry and selected non-fiction prose from 1780 to 1830.
- EN 362 **VICTORIAN WRITING** (3) English poetry from Tennyson to Hardy; some attention to representative Victorian novels.
- EN 370 **MODERN BRITISH LITERATURE** (3) Twentieth-century British poetry, fiction, and drama. Student should have some background in the analysis of poetry.
- EN 372 **MODERN DRAMA** (3) British, American, and European drama from Ibsen to Brecht. (TR 405).
- EN 373 **CONTEMPORARY DRAMA** (3) British, American, and European drama of the post-war period. (TR 406).
- EN 381 **THE AMERICAN RENAISSANCE: 1830-1865** (3) Textual and cultural study of the Transcendentalists and authors of the American romance.
- EN 382 **AMERICAN REALISM: 1865-1915** (3) Textual and cultural study of the realistic impulse in American poetry and fiction.
- EN 383 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1915-1940** (3) American poetry and fiction in the context of the revolution in Western art.
- EN 386 **CONTEMPORARY AMERICAN FICTION** (3).
- EN 388 **AFRO-AMERICAN LITERATURE** (3).
- EN 393 **CONTEMPORARY AMERICAN POETRY** (3) The poetry of Oppen, Zukofsky, Olson, Spicer, Duncan, and others.
- EN 395 **AMERICAN WOMEN'S POETRY** (3) Poetry of American women: Bradstreet, Dickinson, H.D., Stein, Rich, and others.
- EN 398 **SENIOR SEMINAR** (3) Topics vary; 398 or 399 required of senior English majors.
- EN 399 **SENIOR SEMINAR** (3) Topics vary; 398 or 399 required of senior English majors.
- EN 428 **CONTEMPORARY WOMEN AND THEIR ART** (2-3) Workshop.
- EN 432 **CONTEMPORARY THEATRE** (2-3) Workshop.

Graduate Courses

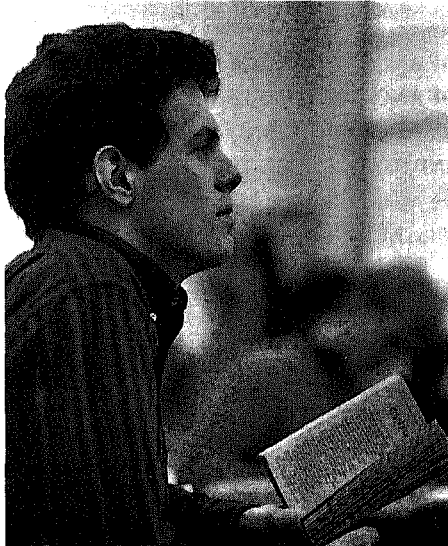
- EN 503 **HISTORICAL LINGUISTICS** (3) Origins and development of the English language from c. 450 to the present.
- EN 510 **CHAUCER'S MAJOR WORKS** (3)
- EN 511 **LANGUAGE OF HUMANITIES** (3) Critical study of topic, audience, and author-directed discourse. Intensive practice in writing (HU 511).
- EN 515 **EARLY ENGLISH LITERATURE** (3).
- EN 527 **SHAKESPEARE'S MAJOR PLAYS** (3)
- EN 530 **STUDIES IN SEVENTEENTH-CENTURY LITERATURE** (3)
- EN 541 **STUDIES IN EIGHTEENTH-CENTURY LITERATURE** (3)
- EN 550 **STUDIES IN ROMANTICISM** (3)

- EN 560 **STUDIES IN VICTORIAN AUTHORS** (3)
- EN 570 **STUDIES IN MODERN BRITISH LITERATURE** (3)
- EN 572 **MODERN DRAMA** (3)
- EN 573 **CONTEMPORARY DRAMA** (3)
- EN 577 **WOMEN AND CREATIVITY** (3)
- EN 578 **MOTHERS AND DAUGHTERS IN LITERATURE** (3)
- EN 581 **THE AMERICAN RENAISSANCE: 1830-1865** (3)
- EN 582 **AMERICAN REALISM: 1865-1915** (3)
- EN 583 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1915-1940** (3).
- EN 586 **CONTEMPORARY AMERICAN FICTION** (3)
- EN 593 **CONTEMPORARY AMERICAN POETRY** (3)
- EN 595 **AMERICAN WOMEN'S POETRY** (3).
- EN 699 **MASTER'S THESIS** (6).

Geography

The Department of Geography is administered by the Dean of the Division of Continuing Education. Courses augment the student's background in economics, science, and education.

- GG 207 **WORLD GEOGRAPHY** (3) Physical and cultural regions of the world. Human systems, patterns, and diffusions. Man-environmental relationships.
- GG 220 **GEOGRAPHY OF EUROPE** (3)
- GG 260 **GEOGRAPHY OF LATIN AMERICA** (2-3) Topical and regional. Location patterns and regional development.
- GG 261 **GEOGRAPHY OF SOUTHEAST ASIA** (3) Political, economic and social. The People: ethnic background, human activity, population number, and distribution.
- GG 395 **DIRECTED STUDY** Credit to be arranged.



History

History

Staff: FR. LARocca, *chair*; DR. FAIRFIELD, DR. GRUBER, DR. JACOBY, MR. MC-VAY, FR. PRICE, DR. SIMON.

Assisted by: DR. CANGI, DR. VILLALON, MS. ANDERSON.

Lower Division Courses

- HS 133 **WESTERN CIVILIZATION I** (3).
- HS 134 **WESTERN CIVILIZATION II** (3).
- HS 135 **MEDIEVAL SOCIETY AND CULTURE I** (3).
- HS 136 **EUROPE, 1500-1848 II** (3) A continuation of HS 135.
- HS 139 **RENAISSANCE AND REFORMATION II** (3).
- HS 143 **AMERICAN THOUGHT AND CULTURE I** (3) American social and intellectual history.
- HS 144 **AMERICAN THOUGHT AND CULTURE II** (3) A continuation of HS 143.
- HS 147 **CIVILIZATION ON TRIAL I** (3) Changing patterns of law, justice, and authority in the Western tradition as seen through famous trials.
- HS 148 **CIVILIZATION ON TRIAL II** (3) A continuation of HS 147.
- HS 152 **LATIN AMERICA: NATIONAL PERIOD I** (3).
- HS 153 **LATIN AMERICA: NATIONAL PERIOD II** (3).
- HS 171 **THE AMERICAN PEOPLE I** (3) (To the Civil War).
- HS 172 **THE AMERICAN PEOPLE II** (3) (Since the Civil War).
- HS 183 **TRADITIONAL JAPANESE CIVILIZATION I** (3).
- HA 184 **MODERN JAPANESE CIVILIZATION II** (3).
- HS 185 **TRADITIONAL CHINESE CIVILIZATION I** (3).
- HS 186 **MODERN CHINESE CIVILIZATION II** (3).

Upper Division Courses

- HS 202 **HISTORY OF ANCIENT GREECE** (3) (GK 202, CL 202).
- HS 206 **HISTORY OF ANCIENT ROME** (3) (LT 206, CL 206).
- HS 210 **CHURCH HISTORY** (3) (TH 201).
- HS 213 **CHURCH AND STATE IN THE TWELFTH CENTURY** (3).
- HS 214 **THE AGE OF AUGUSTINE** (3).
- HS 215 **THE RENAISSANCE** (3) The decline of medieval culture. Cultural changes in Florence and their impact in Italy. Political and socio-economic transformation in Western and Eastern Europe. Critical awareness of the past. Imitation of classical norms. (TH 369).
- HS 216 **THE REFORMATION** (3) Impact of the Renaissance. Luther's break from Rome. Lutheranism. Calvinism. Reform within the church. Religious conflicts in England, France, and Eastern Europe. Secularized territorial states. (TH 370).
- HS 217 **BAROQUE CATHOLICISM** (3) An investigation of the implementation of the decrees of the Council of Trent, the spread of the Society of Jesus, and missionary activity. An examination of the church's response to the Enlightenment. (TH 371).
- HS 218 **THE ENGLISH REFORMATION** (3) An examination of the political framework of the English Reformation and of the development of Anglican theology and worship. (TH 372).

- HS 220 **THE CHURCH FROM THE FRENCH REVOLUTION TO THE REVOLUTION OF THE SECOND VATICAN COUNCIL** (3) (TH 377).
- HS 223 **ELIZABETHAN CHURCH AND SOCIETY** (3)
- HS 224 **MIDDLE EAST TODAY** (3)
- HS 226 **EUROPE SINCE 1914** (3)
- HS 227 **REVOLUTIONARY FRANCE, 1770-1800** (3).
- HS 228 **MODERN FRANCE**(3) France since the Enlightenment, with attention to its unique role in Western society.
- HS 229 **THE EUROPEAN ENLIGHTENMENT** (3)
- HS 230 **THE THIRD REPUBLIC** (3).
- HS 237 **SEMINAR: USSR-USA CONFRONTATION** (3)
- HS 240 **HENRY VIII, HIS WIVES AND KIDS** (3) The political, social, and religious life in England during the English Renaissance.
- HS 241 **ENGLAND 1793-1900** (3).
- HS 242 **TWENTIETH CENTURY ENGLAND** (3).
- HS 243 **MODERN IRELAND** (3).
- HS 244 **OLIVER CROMWELL IS DEAD** (3) The background, the course of, and the aftermath of the English Civil War.
- HS 245 **PHILOSOPHY AND REVOLUTION IN SEVENTEENTH CENTURY ENGLAND** (3)
- HS 246 **VICTORIAN WOMEN** (3).
- HS 249 **INTERNATIONAL ORGANIZATIONS** (3).
- HS 253 **HISTORY OF MEXICO** (3) Pre-Columbian Indian Civilization. The Conquest. Role of the Church, Trade and Culture, Struggle for Independence. 19th Century Political and Social Struggles. 20th Century—the “Ongoing” Revolution, 1911-Present.
- HS 254 **ARGENTINA, BRAZIL, CHILE, AND URUGUAY** (3) Their political, social, and economic history since Independence. Especially the 20th century.
- HS 255 **THE CARIBBEAN AND CENTRAL AMERICA** (3) An overview of the Caribbean Basin from the Pre-Columbian Period to the Present — with a stress on the 20th century. Political, Social, Economic.
- HS 256 **GRAN COLOMBIA** (3) The history of Colombia, Venezuela, Ecuador and Peru, with an emphasis on the modern period.
- HS 259 **CONTEMPORARY LATIN AMERICA** (3) Select problems and issues and countries in 20th Century Latin America.
- HS 261 **WAR, CULTURE, AND SOCIETY** (3).
- HS 263 **HISTORY OF TERRORISM** (3) Historical overview and analysis of contemporary terrorism.
- HS 267 **NAZI GERMANY** (3).
- HS 268 **MODERN GERMANY** (3).
- HS 291 **EUROPEAN INTELLECTUAL HISTORY IN THE NINETEENTH AND TWENTIETH CENTURIES** (3) Ideas and their influence from the French Revolution to the present.
- HS 293 **HISTORICAL RESEARCH AND CRITICISM** (3) Undergraduate study of the canons of historical literature as found in its more notable productions. The problem of evidence. Truth in history. Historical research and senior research paper.

History

- HS 295 **IMAGES OF HISTORY** (3) Studies of selected historical topics emphasizing the utilization of film, literature, and the arts as important supplements to traditional documentary sources.
- HS 298 **ADVANCED READING** (3) Tutorial course under staff direction.
- HS 301 **COLONIAL AMERICA, 1607-1763** (3) England and America on the eve of colonization, the founding and development of the American colonies. Differences in religion, culture, and politics.
- HS 302 **FORMATIVE YEARS OF THE REPUBLIC, 1763-1789** (3) Thirteen colonies become a national state. Emphasis on the causes of the American Revolution and the writing of the Constitution of 1789.
- HS 303 **THE NEW NATION, 1785-1825** (3) The Constitution, origins of the two-party system. Federalists and Democratic Republicans, War of 1812, and ideas which conceived the new nation.
- HS 304 **THE AGE OF JACKSON, 1825-1861** (3) Development of sectionalism and attempted solutions, slavery problems, secession, constitutional discussion, Northern industry, the West, and unity and disunity.
- HS 310 **CIVIL WAR AND RECONSTRUCTION, 1861-1885** (3) War. Healing wounds. Railroads and Western states. A "New South." Republican national hegemony. Higher education. Impacts of immigration and labor.
- HS 311 **AGE OF BIG BUSINESS, 1885-1920** (3) Economic surge with its social and political sequel.
- HS 312 **UNITED STATES IN THE TWENTIETH CENTURY** (3) The United States since 1919. Social and political tensions found in America during these years.
- HS 313 **UNITED STATES SINCE 1932** (3).
- HS 330 **THE AMERICAN WEST** (3) The Frontier movements as a mold of national character. English, French, and Spanish contributions. Peopling virgin land. State evolving, the Far West.
- HS 332 **BEER, BASEBALL, AND POPULAR CULTURE IN AMERICA** (3).
- HS 341 **AMERICAN CIVILIZATION TO 1865** (3) Colonial base. Break from England. Confederation and Constitution. Federalists, Jeffersonian and Jacksonian democracy. The Tragic Era.
- HS 342 **AMERICAN CIVILIZATION SINCE 1865** (3) Reconstruction. Continental expansion. Rise of cities. Social questions. International influence.
- HS 350 **INTELLECTUAL HISTORY OF THE UNITED STATES** (3) Puritanism, political Revolutionary thought. American Renaissance, Social Darwinism, and pragmatism in American history.
- HS 351 **WOMEN IN AMERICAN LABOR** (3).
- HS 358 **URBAN AMERICA** (3) Emergence and importance of the city in socio-political America, particularly 1865-1915, but continuing to the 1960's.
- HS 366 **A HISTORY OF RACIAL AND ETHNIC MINORITIES IN AMERICA** (3) The major racial and ethnic groups in America. Interrelationships. Slavery, immigration, and the assimilation of these groups into the American character.
- HS 367 **IMMIGRATION** (3) The history of immigration to the United States.
- HS 369 **WOMEN IN AMERICAN HISTORY** (3) An historical perspective on women in American history.
- HS 388 **OHIO HISTORY** (3).
- HS 397 **INTERNSHIP: LOCAL**(3).

- HS 398 **ADVANCED READING AND RESEARCH** (3).
- HS 425 **(INTERSESSION): WAR, PEACE AND SOCIETY** (3).
- HS 433 **(INTERSESSION): THE OHIO VALLEY** (3).
- HS 434 **(INTERSESSION): FRONTIER DAYS IN THE MIDWEST** (3).

Graduate Courses

- HS 524 **SEMINAR: THE MIDDLE EAST TODAY** (3).
- HS 525 **SEMINAR: EUROPE** (3) Research in the history of Western Europe or of Great Britain.
- HS 526 **SEMINAR: MODERN BRITAIN AND EUROPE** (3).
- HS 528 **SEMINAR: TWENTIETH-CENTURY EASTERN EUROPE** (3).
- HS 529 **SEMINAR: TUDOR ENGLAND** (3).
- HS 530 **SEMINAR: STUART ENGLAND** (3).
- HS 537 **SEMINAR: USSR-USA CONFRONTATION** (3).
- HS 541 **LECTURE COURSE: TUDOR ENGLAND** (3).
- HS 546 **SEMINAR: AMERICAN GOVERNMENT** (3).
- HS 549 **INTERNATIONAL ORGANIZATIONS** (3).
- HS 551 **SEMINAR: COLONIAL LATIN AMERICA** (3).
- HS 552 **SEMINAR: CONTEMPORARY LATIN AMERICA** (3).
- HS 568 **SEMINAR: CONFLICTS IN SOUTHERN AFRICA** (3).
- HS 584 **SEMINAR: JAPAN SINCE 1868** (3).
- HS 586 **SEMINAR: CHINA SINCE 1644** (3).
- HS 602 **SEMINAR: COLONIAL UNITED STATES** (3).
- HS 603 **SEMINAR: EARLY NATIONAL PERIOD** (3).
- HS 604 **SEMINAR: JACKSONIAN AMERICA** (3).
- HS 611 **SEMINAR: THE AGE OF BIG BUSINESS** (3).
- HS 612 **SEMINAR: THE UNITED STATES IN TWENTIETH CENTURY** (3).
- HS 614 **SEMINAR: SOCIAL UNREST IN RECENT AMERICA** (3).
- HS 630 **SEMINAR: THE AMERICAN WEST** (3).
- HS 631 **SEMINAR: THE WEST SINCE 1783** (3).
- HS 648 **SEMINAR: CONSTITUTIONAL HISTORY OF THE UNITED STATES** (3).
- HS 649 **SEMINAR: SOCIAL REFORM IN THE UNITED STATES** (3).
- HS 650 **SEMINAR: UNITED STATES INTELLECTUAL HISTORY** (3).
- HS 658 **SEMINAR: URBAN AMERICA** (3).
- HS 666 **SEMINAR: RACIAL AND ETHNIC MINORITIES** (3).
- HS 674 **SEMINAR: UNITED STATES FOREIGN RELATIONS** (3).
- HS 676 **SEMINAR: INTERNATIONAL LAW** (3).
- HS 677 **SEMINAR: INTERNATIONAL RELATIONS** (3).
- HS 695 **SPECIAL STUDIES** (3).
- HS 699 **MASTER'S THESIS** (6).

Mathematics

Mathematics (MT)

Staff: DR. FLASPOHLER, *chair:* MR. BRUGGEMAN, DR. COLLINS, MS. DINKHELLER, MS. HOLLAND, FR. ISENECKER, DR. LARKIN, MS. MOSS, MR. PULSKAMP, MR. TRUNNELL, DR. WALKER

Assisted by: MR. BUTZ, MS. CONNELLY, MS. DORAN, FR. FITZSIMMONS, MS. FLASPOHLER, BR. LOHREY, MS. MEALY, MR. PIENING, MR. PUTHOFF.

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.

- MT 105 FUNDAMENTALS OF MATHEMATICS (3)** Rational numbers, percents. Polynomials, rational expressions, integral and rational exponents. Linear equations in one and two variables, quadratic equations in one and two variables. Graphing. This course is not applicable to the core requirement in mathematics.
- MT 140 MATHEMATICS FOR ELEMENTARY SCHOOLS (3)** Patterns and problem solving in counting and calculating with integers. Operations with fractions, rationals, and irrationals. Probability and statistics. (For education majors only.)
- MT 141 GEOMETRY FOR ELEMENTARY SCHOOLS (3)** Geometric figures and reasoning. Measurement and geometry with coordinates. Equations and inequalities, graphs of linear and non-linear relations. Motions in geometry. (For education majors only.)
- MT 143 MATHEMATICS OF FINANCE (3)** Simple and compound interest, discounting, annuities, amortization and sinking funds, stocks, bonds, insurance.
- MT 146 ELEMENTARY STATISTICS (3)** Description of sample data. Simple probability, theoretical distributions, normal and binomial estimation. Tests of hypotheses, correlation, regression.
- MT 149 ELEMENTARY FUNCTIONS (3)** Review of fundamentals of algebra, inequalities, absolute value. Graphing of lines and parabolas and solving equations, polynomials, rational and algebraic functions. Exponential and logarithmic functions. Binomial theorem.
- MT 150 ELEMENTS OF CALCULUS I (3)** Limits, the derivative, differentiation techniques. Curve-sketching, maximum/minimum problems. Elementary integration. Exponential and logarithmic functions. Prerequisite: MT 149 or equivalent.
- MT 151 ELEMENTS OF CALCULUS II (3)** Techniques of integration. Planes and systems of linear equations, surfaces, functions of several variables, partial derivatives. Maximum/minimum problems, Lagrange's method, multiple integrals. Exponential growth and decay. Prerequisite: MT 150 or equivalent.
- MT 156 GENERAL STATISTICS (3)** Descriptive statistics, basic probability distributions. Confidence intervals and hypothesis testing. Regression and correlation. Chi-square analysis, analysis of variance. Non-parametric methods. Prerequisite: MT 150 or equivalent.
- MT 161 PLANE ANALYTIC GEOMETRY (1)** Inequalities, Relations, functions and graphs, Linear Functions, Transcendental Functions, Vectors in the Plane, Conics.
- MT 162 SOLID ANALYTIC GEOMETRY (2)** Loci defined by equations or inequalities in polar, rectangular, cylindrical or spherical coordinates. Parametric representation of lines, planes, curves, and surfaces. Intersections of lines, planes, curves and surfaces. Vectors. Quadric surfaces. Geometric representation of real-valued functions.
- MT 170 CALCULUS I (3)** Definition, techniques and applications of the derivative. Limits and continuity, the integral. Corequisite: MT 161 or equivalent.

MT 171 **CALCULUS II** (3) Applications of integration, Transcendental functions, techniques of integration. Elementary differential equations. Prerequisite: MT 170.

Upper Division Courses

MT 204 **ELEMENTARY LINEAR ALGEBRA** (3) Euclidean n-space, Systems of linear equations. Matrices and matrix arithmetic, Determinants, Bases and dimension, Linear transformations, Eigenvalues and eigenvectors, Quadratic forms.

MT 208 **ELEMENTS OF DISCRETE MATHEMATICS** (3) Set theory, Relations and functions, Mathematical induction, Counting principles, Elementary probability, Recurrence relations, Basic graph theory, Combinatorial circuits, Boolean algebras, Propositional calculus.

MT 216 **INFINITE SERIES AND DIFFERENTIAL EQUATIONS** (3) Sequences, l'Hopital's Rule, Infinite Series, Power Series, Differential Equations. Prerequisite: MT 171.

MT 221 **CALCULUS III** (3) Functions of several variables, Partial derivatives and applications, Gradients and directional derivative, Multiple integrals, Line integrals in the plane. Prerequisites: MT 162, 171.

MT 229 **INTRODUCTION TO VECTOR ANALYSIS** (3) Vector fields and their derivatives, Line and surface integrals, Green's, Divergence and Stokes' Theorems. Prerequisite: MT 221.

MT 237 **TOPICS IN LOGIC** (3) The propositional calculus and the predicate calculus of one variable investigated as a mathematical system.

MT 238 **TOPICS IN STATISTICS** (3) Elementary probability, descriptive statistics, estimation and interference, correlation and regression.

MT 239 **TOPICS IN ABSTRACT ALGEBRA** (3) Introduction to the study of groups, rings and fields.

MT 240 **LINEAR ALGEBRA** (3) Vector spaces, bases, linear transformations, matrices and inverses, change of bases. Systems of linear equations, determinants, eigenvalues and eigenvectors, diagonalization. Prerequisite: MT 204.

MT 246 **STATISTICS** (3) Probability, central limit theorem, estimation, hypothesis testing, regression and correlation, non-parametric methods, goodness of fit, linear models. Prerequisite: MT 171.

MT 250 **ABSTRACT ALGEBRA** (3) Groups, isomorphism, homomorphism, rings, ideals, fields, linear congruences, real numbers.

MT 270 **REAL ANALYSIS** (3) The real number system. Elementary topology of metric spaces, continuity, connectedness, completeness, compactness. Sequences and series of functions, pointwise and uniform convergence. Stieltjes integral. Prerequisites: MT 221, 222.

MT 280 **COMPLEX ANALYSIS** (3) Complex numbers, analytic functions, complex integration, series representation of analytic functions, the calculus of residues Prerequisite: MT 222 or equivalent.

MT 301 **PROBABILITY** (3) Sample space, discrete and continuous densities, conditional probability, independence, expectation, Markov chains. Prerequisites: MT 204, 221.

MT 302 **INTRODUCTION TO OPERATIONS RESEARCH** (3) Deterministic and stochastic models, network analysis. Linear, non-linear and integer programming. Classical optimization, inventory theory, queuing, Markov analysis. Prerequisites: MT 204, 301 or permission of instructor.

MT 303 **NUMERICAL METHODS** (3) Measures of accuracy, sources of error, computational aspects of function evaluation and approximation, systems of linear equations, non-linear equations, numerical differentiation and integration, and solutions to differential equations. Prerequisites: MT 171, CS 170 or equivalent (CS 303)

Military Science

- MT 315 **SURVEY OF GEOMETRIES** (3) Axiom systems, models and finite geometries, convexity, transformations, Euclidean constructions, and the geometry of triangles and circles. Introduction to projective and non-Euclidean geometries.
- MT 320 **MATHEMATICAL LOGIC** (3) Axiomatic development of propositional calculus, functional complete sets of operators, axiomatic development of the first order function calculus, the existential operator, the algebra of logic.
- MT 330 **THEORY OF NUMBERS** (3) Divisibility and primes, linear congruences, quadratic residues and reciprocity. Diophantine equations, multiplicative functions, distribution of primes.
- MT 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 204, 222 or permission of instructor.
- MT 350 **GRAPH THEORY** (3) Graphs, subgraphs, trees, isomorphism, Eulerian and Hamiltonian paths, planarity, digraphs, connectivity, matrix representations, chromatic number, circularity. Prerequisites: MT 204, 208.
- MT 356 **MATHEMATICS FOR PHYSICS** (3) Review of linear differential equations and series solutions of differential equations. Laplace transforms. Bessel functions and Legendre polynomials, Sturm-Liouville theory. Fourier series, integrals, and transforms. Partial differential equations. Prerequisite: MT 222.
- MT 397 **SPECIAL READING AND STUDY FOR ADVANCED STUDENTS** Credit by arrangement.

Military Science (MS)

Staff: LTC SCHIESS, *chair*; MAJ BAMBER, MSG BOYKIN, MAJ FRICK, CPT ROYER, MAJ WILLIS

Assisted by: SGM O'DAIRE, SSG HOWELL, MS ROCHE, MR. JORDAN

The Department of Military Science provides an opportunity for men and women to study subjects of recognized military and educational value which assist them in gaining the foundations of intelligent citizenship. The primary purpose of this program is to produce quality leaders to serve as commissioned officers in the United States Army, the Army National Guard, and the Army Reserve.

Credit for Military Science courses is granted by the University. The credit hours for these courses may be used to satisfy free elective requirements.

ROTC COURSES may be taken as either a two or a four year program. The four year program is conducted entirely at the University, and consists of lower division courses in the freshman and sophomore years followed by upper division courses in the junior and senior years. The two year program begins with a six week paid summer camp between the sophomore and junior years which teaches the student all subjects covered in the lower division courses. The student then completes the upper division courses during the junior and senior years. Lower division courses are taken on a voluntary basis. **THERE IS NO MILITARY OBLIGATION INCURRED FOR TAKING LOWER DIVISION COURSES.** The upper division courses qualify the student for a commission as an Officer in the United States Army. A military obligation is incurred for taking upper division courses. Admission to upper division courses must be approved by the Chair of the Military Science Department. Requirements for admission to upper division courses are:

1. Voluntary application by the student.
2. Completion of MS 101, 102, 103, and 134; or completion of ROTC Basic Camp; or prior military service; or completion of Air Force, Navy, or Army ROTC lower division courses at other institutions; or completion of JROTC.
3. Demonstrated potential for leadership.
4. Successful completion of a US Army administered physical examination.

5. A GPA of at least 2.0.
6. Signing the ROTC Advanced Course Student Contract.

ROTC COMMISSIONING REQUIREMENTS

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Freshman Year			
MS 101 - Intro. to Leadership I	1	MS 102 - Intro. to Leadership II	2
Leadership Lab		Leadership Lab	
Sophomore Year			
MS 103/CA 101 - Oral Communications	3	MS 134 - Hist. Military Perspective	3
Leadership Lab		Leadership Lab	
Junior Year			
MS 201 - Basic Military Tactics	3	MS 202 - Advanced Military Tactics	3
Leadership Lab		Leadership Lab	
Senior Year			
MS 203 - The Military Team	2	MS 204 - Professional Development	2
Leadership Lab		Leadership Lab	

Additionally, students must complete a baccalaureate program resulting in a degree which includes one class in each of the following fields of study: Human Behavior, Written Communications, and Military History; and successfully complete a six week paid Advanced Camp between Junior and Senior Year.

Lower Division Courses

- MS 101 **INTRODUCTION TO LEADERSHIP I** (1) Pragmatic approach to the psychology of motivating people to be productive within a formal organization, to include introductory segments on the current structure of the US defense organizations. Leadership labs stress physical confidence building through mountaineering skills.
- MS 102 **INTRODUCTION TO LEADERSHIP II** (2) Analysis of leadership styles, behavior, group motivation, performance counseling, social power and exchange, and communications. Leadership labs include survival swimming, marksmanship training, and land navigation.
- MS 103 **ORAL COMMUNICATIONS** (3) Speech fundamentals, as applied to interpersonal, public, and group speaking. Projects in listener analysis, development of ideas, and delivery. Military skills training. (CA 101)
- MS 104 **LEADERSHIP LABS** (0) Practical application of basic military skills. **MANDATORY FOR ALL MILITARY SCIENCE STUDENTS.**
- MS 105 **ROTC LEADERSHIP CAMP** (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.
- MS 134 **THE HISTORICAL MILITARY PERSPECTIVE** (3) The American military experience. Military skills training.

Upper Division Courses

- MS 201 **BASIC MILITARY TACTICS** (3) Squad tactics, map readings, and methods of instruction. Military skills training.

Modern Languages

- MS 202 **ADVANCED MILITARY TACTICS** (3) Small unit tactics, advanced tactics, and career development. Military skills training.
- MS 203 **THE MILITARY TEAM** (2) The military team, staff functions, and military law. Military skills training.
- MS 204 **PROFESSIONAL DEVELOPMENT** (2) Company administration, logistics, and management. Preparation for active duty.
- MS 290 **SPECIAL INSTRUCTION** Credit to be arranged.

Modern Languages

Staff: MR. EICK, *chair*; DR. BUGOS, FR. KENNEALY, MS. MCDIARMID, DR. VEGA

A proficiency test is administered to those students who took modern language 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.

All modern language majors must pass a senior comprehensive examination.

French (FR)

Lower Division Courses

- FR 111 **ELEMENTARY FRENCH I** (3)
- FR 112 **ELEMENTARY FRENCH II** (3). Prerequisite: FR 111.
- FR 121 **INTERMEDIATE FRENCH I** (3). Prerequisite: FR 112.
- FR 122 **INTERMEDIATE FRENCH II** (3). Prerequisite: FR 121.

Upper Division Courses

Prerequisite: FR 122 or the equivalent. Students **MUST** take at least one of the following courses before enrolling in other upper divisions courses: FR 200, 202 or 203.

- FR 200 **ADVANCED FRENCH** (3)
- FR 202 **ADVANCED CONVERSATION** (3).
- FR 203 **ADVANCED COMPOSITION** (3).
- FR 210 **FRENCH CULTURE AND CIVILIZATION** (3).
- FR 220 **SURVEY OF FRENCH LITERATURE I** (3).
- FR 221 **SURVEY OF FRENCH LITERATURE II** (3).
- FR 230 **THE MIDDLE AGES** (3).
- FR 232 **THE SIXTEENTH CENTURY** (3).
- FR 234 **THE SEVENTEENTH CENTURY** (3).
- FR 236 **THE EIGHTEENTH CENTURY** (3).
- FR 238 **THE NINETEENTH CENTURY** (3).
- FR 240 **THE TWENTIETH CENTURY** (3).
- FR 325 **TEACHING MODERN LANGUAGES** (3).
- FR 395 **DIRECTED STUDY** Credit by arrangement. Individualized instruction.

German (GR)

Lower Division Courses

- GR 111 **ELEMENTARY GERMAN I** (3).
- GR 112 **ELEMENTARY GERMAN II** (3) Prerequisite: GR 111.
- GR 121 **INTERMEDIATE GERMAN I** (3) Prerequisite: GR 112.
- GR 122 **INTERMEDIATE GERMAN II** (3) Prerequisite: GR 121.

Upper Division Courses

Prerequisite: GR 122 or equivalent. Students **MUST** take at least one of the following courses before enrolling in other upper division courses: GR 200, 202.

- GR 200 **ADVANCED GERMAN** (3).
- GR 202 **ADVANCED CONVERSATION** (3)
- GR 204 **BUSINESS GERMAN** (3).
- GR 210 **GERMAN CULTURE I** (3) German contributions to world culture in literature, art, music, science, and other fields.
- GR 211 **GERMAN CULTURE II** (3) German contributions to world culture in literature, art, music, science, and other fields. GR 210 is not a prerequisite. Subject content different from GR 210.
- GR 220 **INTRODUCTION TO GERMAN LITERATURE** (3) A chronological presentation based on genres and movements.
- GR 230 **THE GERMAN SHORT STORY** (3) An introduction to representative short story writers.
- GR 235 **THE CLASSICAL PERIOD** (3) "Sturm and Drang," Goethe, Schiller, etc.
- GR 240 **CONTEMPORARY GERMAN LITERATURE** (3) Grass, Boell, Johnson, Walser, Hildesheimer, Seghers, and others.
- GR 325 **TEACHING MODERN LANGUAGES** (3)
- GR 395 **DIRECTED STUDY** Credit by arrangement. Individualized instruction.

Spanish (SP)

Lower Division Courses

- SP 111 **ELEMENTARY SPANISH I** (3).
- SP 112 **ELEMENTARY SPANISH II** (3) Prerequisite: SP 111.
- SP 121 **INTERMEDIATE SPANISH I** (3) Prerequisite: SP 112
- SP 122 **INTERMEDIATE SPANISH II** (3) Prerequisite: SP 121.

Upper Division Courses

Prerequisite: SP 122 or its equivalent. Students **MUST** take at least one of the following before enrolling in other upper division courses: SP 200, 201, 202, or 203.

- SP 200 **ADVANCED SPANISH** (3) Required of majors.
- SP 201 **ADVANCED READINGS IN SPANISH** (3) Literary and non-literary texts.
- SP 202 **ADVANCED CONVERSATION** (3)
- SP 203 **ADVANCED COMPOSITION** (3)
- SP 210 **SPANISH CIVILIZATION** (3)

Modern Languages

- SP 211 **LATIN-AMERICAN CIVILIZATION** (3)
- SP 220 **INTRODUCTION TO SPANISH LITERATURE** (3) A chronological presentation based on genres and movements. Analyses of excerpts from representative authors.
- SP 221 **SPANISH AUTHORS I** (3) Spanish literature from the beginning to the end of the Golden Century.
- SP 222 **SPANISH AUTHORS II** (3) Spanish literature of the eighteenth, nineteenth, and twentieth centuries.
- SP 223 **LATIN-AMERICAN LITERATURE I** (3) From the beginning to the end of the Romantic period.
- SP 224 **LATIN-AMERICAN LITERATURE II** (3) Nineteenth-century realism. Naturalism and the twentieth century.
- SP 230 **THE NOVEL OF THE GOLDEN CENTURY** (3) A study of *Lazarillo de Tormes*, *Don Quixote*, and other novels of the period.
- SP 231 **THE DRAMA OF THE GOLDEN CENTURY** (3) Representative plays by Lope de Vega, Tirso de Molina, Calderón, and Cervantes.
- SP 232 **POETRY OF THE GOLDEN CENTURY** (3) Poems of the Renaissance and the baroque period. The latter includes culteranism and conceptism. Main authors studied: Garcilaso, Góngora, Quevedo, Lope de Vega, and the mystic poets.
- SP 235 **THE ROMANTIC PERIOD** (3) Main authors such as Larra, Espronceda, Duque de Rivas, Zorrilla, Campoamor, Rosalía de Castro, and Becker are studied.
- SP 237 **NINETEENTH CENTURY SPANISH NOVEL** (3) Some authors included are Galdós, Valera, Pardo Bazán, "Clarín" and Blasco Ibañez.
- SP 238 **THE GENERATION OF 1898** (3) A study of main works by Ganivet, Unamuno, Valle Inclán, Pío Baroja, Azorín, and Antonio Machado.
- SP 240 **TWENTIETH-CENTURY SPANISH DRAMA** (3) Major developments of the art up to the Spanish Civil War (1936-1939). Plays by Benavente, Casona, Martínez Sierra, Lorca, and others.
- SP 241 **POST CIVIL WAR SPANISH DRAMA** (3) A Study of the main playwrights of this period includes Buero Vallejo, Sastre, Paso, Arrabal, and the underground theatre.
- SP 242 **TWENTIETH CENTURY LATIN-AMERICAN NOVEL I** (3) Contributions by Gallegos, Guiraldes, Azuela, Alegría, and other important authors.
- SP 243 **TWENTIETH CENTURY LATIN-AMERICAN NOVEL II** (3) Study of the new narrative and magic realism. Representative novels by Borges, Asturias, Carpentier, García Márquez, Cortázar, Vargas Llosa, Rulfo, Fuentes, and others.
- SP 244 **TWENTIETH CENTURY LATIN-AMERICAN POETRY** (3) Representative poets such as Ruben Darfo, Vicente Huidobro, Cesar Vallejo, Alfonsina Storni, Gabriela Mistral, Juana de Ibarbourou, Pablo Neruda, Nicolás Guillén, and Octavio Paz.
- SP 246 **POST CIVIL WAR SPANISH NOVEL** (3) Main trends and a study of works by Cela, Laforet, Delibes, Goystisoló, Martín Santos, and other important authors.
- SP 300 **HISTORY OF THE SPANISH LANGUAGE** (3).
- SP 325 **TEACHING MODERN LANGUAGES** (3)
- SP 395 **DIRECTED STUDY** Credit by arrangement. Individualized instruction.

Music (MU)

Staff: DR. ROEHRIG, *chair*; MR. SKEIRIK

Assisted by: MS. BEEBE, MS. BUEL, MR. CAVALLY, MRS. CAVALLY, MR. DEFOOR, MR. DUERR, MS. ELLSWORTH, MR. GARDNER, MR. HINKLE, MR. KAHLSON, MR. MANCZYK, MR. MERCER, MR. PRIDE, MR. NORTON, MR. ROWLAND, MR. SWISHER, MR. THORNTON

Lower Division Courses

- MU 100 **BASIC MUSIC THEORY** (2) Study of basic concepts and elements of music theory. (Credits may not be applied toward a major in music.)
- MU 111 **MUSIC IN GENERAL CULTURE** (3) Course is designed to develop an aesthetic appreciation of the role of music in the history of man.
- MU 112 **MUSIC: THE ART OF LISTENING** (3) Music Appreciation course which provides information to enable the student to listen more perceptively and to better understand the various elements and aspects of music.
- MU 114 **JAZZ: AMERICAN CREATIVE MUSIC** (3) Study and examination of the trends and styles, the innovators and influential pioneers, and the evolution of the Jazz idiom in the 20th century.
- MU 117 **MUSIC AND HUMAN EXPERIENCE** (3) Introduction to major works of Music Literature focusing on shared human experiences and their interpretation in music. Areas to be covered include: Music and Nature, Music of Lands and Peoples, Music and Ideas, Music and Emotion, etc.
- MU 121 **FUNDAMENTALS OF SCHOOL MUSIC** (2) For classroom teachers. Basic elementary methods and materials for elementary grades.
- MU 122 **MUSIC IN THE ELEMENTARY SCHOOLS** (2) Intermediate level course. Focus upon creativity and curriculum design K - 8. Prerequisite: MU 121.

Upper division courses

- MU 201 **THEORY I** (3) Study of elements of musical organization; four-part harmonization and analysis.
- MU 202 **THEORY II** (3) Continuation of MU 201. Prerequisite: MU 201 or permission of instructor.
- MU 205 **SIGHTSINGING AND DICTATION I** (1) Course is designed to develop the ability to read at sight diatonic progressions, and to identify and notate intervals, scale degrees, tonal relationships and simple rhythms. The course utilizes computer assisted drills.
- MU 207 **SIGHTSINGING AND DICTATION II** (1) Continuation of MU 205.
- MU 208 **TECHNIQUES OF JAZZ IMPROVISATION** (2) The presentation, examination, practice and exercise of techniques and methods utilized and applied in the execution and performance of improvisational jazz. Includes a summary of Theory, form and styles.
- MU 209 **TECHNIQUES OF JAZZ WRITING AND ARRANGING** (2) The presentation, examination, practice and exercise of techniques and methods applied in the organization and creation of Jazz writing and arranging. Includes a summary of Jazz Theory, forms and styles. Prerequisites: MU 100 or equivalent.
- MU 210 **SURVEY OF MUSIC LITERATURE I** (3) Introduction to the literature of music. Discussion of representative compositions from all style periods with emphasis on listening and rudimentary aural analysis of selected works.
- MU 211 **SURVEY OF MUSIC LITERATURE II** (3) Continuation of MU 210. MU 210, however, is not a prerequisite.

Music

- MU 221 **MUSIC IN THE SECONDARY SCHOOL (2)** Overview of role, and responsibility of music teacher. Vocal, instrumental, and general music education.
- MU 222 **METHODS AND MATERIALS IN THE SECONDARY SCHOOL (2)** Emphasis on instrumental and choral methods and materials. Practical guide for secondary music educator. Prerequisite: MU 221.
- MU 301 **THEORY III (3)** Continuation of MU 202; special emphasis on harmonic developments during the Romantic period (chromaticism, altered chords).
- MU 302 **THEORY IV (3)** Continuation of MU 301. Basic compositional techniques and analysis; twentieth-century harmonic vocabulary.
- MU 303 **FORM AND ANALYSIS (3)** Intensive study of larger musical forms; works selected from representative works of instrumental and vocal music literature.
- MU 304 **ORCHESTRATION – ARRANGING (3)** The technique of scoring for orchestra, band and diverse instrumental ensembles.
- MU 305 **SIGHTSINGING AND DICTATION III (1)** Advanced sightsinging and eartraining material including chromatic progressions, dictation of two part polyphonic examples and simple chord progressions. Course utilizes computer assisted drills.
- MU 306 **SIGHTSINGING AND DICTATION IV (1)** Continuation of MU 305.
- MU 310 **MUSIC HISTORY I (3)** Historical development of music from antiquity to the end of the Baroque era.
- MU 311 **MUSIC HISTORY II (3)** Historical development of music from Viennese Classicism to the present; a continuation of MU 310.
- MU 316 **SONG LITERATURE (3)** Survey of vocal repertoire from the preclassical to the present; course also includes discussion of style and performance technique.
- MU 324 **CONDUCTING I (3)** Fundamentals of conducting. Basic techniques, and study of shorter choral and instrumental works.
- MU 325 **CONDUCTING II (3)** Continuation of MU 324.
- MU 326 **INSTRUMENTAL TECHNIQUES I (2)** Class instruction in string and woodwind instruments.
- MU 327 **INSTRUMENTAL TECHNIQUES II (2)** Class instruction in brass and percussion instruments.
- MU 328 **FUNCTIONAL PIANO (2)** Development of basic skills needed for playing accompaniments and harmonizations at the keyboard. Designed for students who wish to teach in the elementary and secondary school.
- MU 330 **MUSIC FOR THE LITURGY (3)** Survey of sacred music appropriate for liturgical celebrations throughout the church year.
- MU 331 **CHURCH SERVICE PLAYING (1)** A practical course in hymn playing and the accompaniment of psalmody and other liturgical songs.
- MU 401 **COMPOSITION (3)** Introduction to creative writing in simple musical forms. Prerequisite: MU 303 or equivalent.
- MU 402 **COUNTERPOINT (3)** Advanced course of contrapuntal writing in the style of eighteenth-century composers. Emphasis on chorale prelude and fugue.
- MU 410 **SYMPHONIC LITERATURE (3)** Study of representative symphonic compositions from the pre-classic era to the early twentieth century; emphasis on listening and discussion of stylistic and formal traits.
- MU 411 **STUDIES IN MUSIC LITERATURE (3)** Survey of development and repertoire of vocal, choral or instrumental literature. Topics vary with need of curriculum design.

Music

- MU 416 **STUDIES IN MUSIC HISTORY** (3) In-depth study of specific eras in the history of music or of major composers and their work.
- MU 425 **PIANO PEDAGOGY** (2) Principles of teaching piano; survey of teaching materials.
- MU 426 **CONTEMPORARY APPROACHES IN MUSIC EDUCATION** (3) Introduction to Orff and Kodaly methodology; curricular innovations for elementary, middle school, and secondary levels.
- MU 427 **FOUNDATIONS OF MUSIC EDUCATION** (3) A comprehensive study of Music Education: history, philosophy, theory, and practical application.
- MU 440 **SENIOR SEMINAR** (2) Review and coordination of historical, theoretical, and practical aspects of music. Supplement to courses taken by the individual student through research and discussion.
- MU 445 **INDEPENDENT STUDY** (1-3).

Applied Music and Music Performance

The Department of Music offers private instruction in the instruments or instrumental areas listed below. One half hour per week merits one credit.

Courses in Applied Music

MU 150 **PRIVATE LESSONS** (1)

A. Piano	E. Strings
B. Organ	F. Woodwind
C. Voice	G. Brass
D. Guitar	H. Percussion

Group Instruction for beginners

- MU 151 **CLASS PIANO** (1) Group instruction in basic piano techniques.
- MU 152 **CLASS VOICE** (1) Group instruction in the basic techniques of voice production.

Ensembles

- MU 160 **CONCERT CHOIR** (1) Chorus of mixed voices. Performance of choral compositions from the Renaissance to the present. Participation with consent of director. Credit or non-credit.
- MU 164 **BRASS CHOIR** (1) Brass ensemble performing original compositions as well as arrangements from the Baroque to the present. Literature is chosen according to the size of the ensemble. Participation with consent of director.
- MU 166 **WOODWIND ENSEMBLE** (1) A select woodwind chamber ensemble performing original works and transcriptions. Participation with consent of director.
- MU 167 **PERCUSSION ENSEMBLE** (1) Study and performance of standard percussion literature. Participation with consent of director.
- MU 168 **GUITAR ENSEMBLE** (1) Study and performance of music for guitar ensemble from all style periods. Participation with consent of director.
- MU 169 **CHAMBER MUSIC ENSEMBLE** (1) Small ensembles of various instrumental combinations ranging from two to five players. Performance of standard chamber music literature. Participation with consent of instructor.
- MU 170 **CHAMBER ORCHESTRA** (1) Study and performance of standard chamber orchestra literature for strings and other instruments. Participation with consent of director.
- MU 171 **JAZZ ENSEMBLE** (1) Study and performance of original compositions and traditional Jazz repertoire from the pre-bop era to the present, including contemporary Jazz-Rock-Blues-Pop Fusion transcriptions and arrangements. Participation with consent of the director.

Philosophy

Philosophy (PL)

Staff: DR. BONVILLAIN, *chair*; MR. ALLEN, MRS. BLAIR, DR. COLELLA, DR. DUMONT, DR. GENDREAU, DR. W. JONES, MR. KERCHUM, MR. MARRERO, FR. OPPENHEIM, DR. RETHY, DR. TALASKA.

Assisted by: FR. BIERMAN, FR. CAHILL, FR. FAY, FR. SCHMIDT.

Lower Division Courses

AREA I: ETHICS

Upper Division Courses

- PL 100 **ETHICS AS AN INTRODUCTION TO PHILOSOPHY** (3) The goals of human life; the first principle of morality; virtue, duty, law, responsibility. Special emphasis on justice.

AREA II: METAPHYSICS

- PL 200 **METAPHYSICS** (3) Being and existence; change; limitation and participation of beings; principles and causes of being; categories and properties of being (unity, truth, goodness).
- PL 202 **METAPHYSICS** (3) The constitution of the real and existing, along with unity, truth and value. Anti-metaphysical positions that are put forward in place of Metaphysics. The supreme reality, God.
- PL 203 **INTEGRAL PERSONALIST METAPHYSICS** (3) Study of reality stressing self-appropriation through analysis of triadic opportunity coming from classical, modern, and contemporary philosophy.
- PL 217 **PARTICIPATION AND BEING** (3) The problem of the one and the many. Platonic participation and Aristotelian potency and act.
- PL 218 **METAFÍSICA** (3) El ente y sus propiedades. El problema crítico. Posibilidad de la certeza. La analogía del ente. Las categorías. Las causas. La existencia de Dios.
- PL 240 **METAPHYSICS: AQUINAS AND DESCARTES** (3) Two types of metaphysics exemplified in the *On Being and Essence* of St. Thomas and the *Meditations* of Descartes.

AREA III: THEORY OF KNOWLEDGE

- PL 250 **PRINCIPLES OF ETHICS** (3) The goal of human life; the first principles of right human action; conscience, virtue, law, responsibility; ethical systems.
- PL 290 **THEORY OF KNOWLEDGE** (3) Overview of human knowledge; sensation, intellection, proof, truth; the principal forms of knowledge.

AREA IV: ELECTIVES

- PL 300 **ORIGINS OF PHILOSOPHY** (3) A study of the revolution in thought which created philosophy and science in ancient Greece. Presocratic philosophers and Plato.
- PL 301 **HISTORY OF ANCIENT PHILOSOPHY** (3) Greek philosophy from its beginnings to Neoplatonism. Emphasis is on Plato and Aristotle.
- PL 302 **HISTORY OF MEDIEVAL PHILOSOPHY** (3) Philosophy in the Latin West from Augustine to the fourteenth century, including Islamic and Jewish philosophy as they influenced Western thought.
- PL 303 **HISTORY OF MODERN PHILOSOPHY** (3) Bacon and Descartes to Nietzsche. Emphasis is on Kant.

Philosophy

- PL 304 **HISTORY OF EARLY MODERN PHILOSOPHY** (3) Seventeenth and eighteenth century philosophers; conflict of ancients and moderns; response of moderns to each other on system, nature, knowledge, method, morals.
- PL 305 **HISTORY OF CONTEMPORARY PHILOSOPHY** (3) Survey stressing structuralist basis and diverse styles of philosophizing in the twentieth century.
- PL 306 **CONTEMPORARY CONTINENTAL EUROPEAN PHILOSOPHY** (3) One or more current continental philosophies; e.g., phenomenology, existentialism, Marxism, and their methods.
- PL 307 **CONTEMPORARY BRITISH AND AMERICAN PHILOSOPHY** (3) Philosophies current in Britain and America; especially analytic philosophy.
- PL 308 **LATE MODERN PHILOSOPHY** (3) Nineteenth century philosophers. A study of the primary sources from Hegel to Nietzsche, with emphasis on continental philosophy and the consequences of Kant's thought.
- PL 309 **ORIENTAL PHILOSOPHY** (3) Hindu thought in the Vedas, Upanishads, Bhagavad Gita. Brief treatment of two main Buddhist traditions and the Tao.
- PL 310 **LOGIC** (3) Reasoning and the forms of argument in traditional syllogistic and modern symbolic logic.
- PL 311 **SYMBOLIC LOGIC** (3) The elements of propositional calculus and predicate calculus; the structure of deductive systems.
- PL 314 **EPISTEMOLOGY** (3) Overview of human knowledge; sensation, intellection, proof, truth; the principle forms of knowledge.
- PL 316 **PHILOSOPHY OF NATURE** (3) Nature, matter, motion, space, time, causality, and necessity.
- PL 317 **PHILOSOPHICAL ANTHROPOLOGY** (3) The principal philosophical topics relating to the nature of the human being, especially life, intellection, freedom, personhood, and community.
- PL 318 **PHILOSOPHY OF GOD** (3) Study by natural reason of the source of finite beings; God, His knowability, existence, nature, attributes, and operations.
- PL 321 **ETHICAL BUSINESS DECISIONS** (3) Case studies of several critical issues in business, analyzed according to the contemporary context and ethical principles.
- PL 324 **SEXUAL ETHICS** (3).
- PL 325 **WAR AND MORALITY** (3) Just war theories, steps toward restraining violence and building peace, including spatial defensive shields and restructuring the world order.
- PL 328 **PROBLEMATIC MORALE EN FRANCE CONTEMPORAINE** (3) Analysis of philosophic works, novels, plays, and essays in French language dealing with ethics. French used throughout the course.
- PL 329 **MEDICAL ETHICS** (3) Moral issues arising in health care delivery, including social policy as well as clinical problems.
- PL 330 **PHILOSOPHY OF SCIENCE** (3) Logic, epistemology, and ontology of science. Relation of scientific research and technology to humanistic and ethical concerns.
- PL 332 **PHILOSOPHY OF HISTORY** (3) History as historiography and as the structural principle in theological and philosophical systems. Relation of metaphysics to politics and history.
- PL 333 **PHILOSOPHY OF ART AND BEAUTY (AESTHETICS)** (3) Principal theories of beauty and contemplation, of art and creative intuition, of truth and symbolism of works of art.

Philosophy

- PL 334 **PHILOSOPHY OF WOMAN** (3) Application of philosophical method to a contemporary issue. Historical survey of philosophers' conceptions of woman.
- PL 335 **CONTEMPORARY ATHEISM** (3) The problem of the existence of God as it is posed in our modern and contemporary culture.
- PL 342 **PHILOSOPHY OF WORK** (3) Search for a proper understanding of work and a Catholic Christian appreciation of work.
- PL 348 **SYSTEM AND METHOD** (3) Classical and modern texts on the order and division of the sciences, the emergence of the modern concepts of system, method, analytic and synthetic.
- PL 349 **AMERICAN IDEALISM** (3) Exposition and evaluation of the background and aims of Royce, Hocking and Whitehead, with critical focus on their ethica-religious thought.
- PL 352 **PERSONALISM** (3) European existentialist and American idealistic personalism, liberation, conscientization, self-appropriation, personal and communal being. Integral Personalism as new synthesis.
- PL 353 **NATURAL LAW AND NATURAL RIGHT** (3) Classical and modern texts by the great teachers of natural law and natural right; emphasis on pre-philosophic right, natural right and nature/cosmos, law vs. right, facts/values.
- PL 354 **AMERICAN PRAGMATISM** (3) A study of Peirce, James, Dewey and their followers.
- PL 355 **PRINCIPLES OF POLITICAL PHILOSOPHY** (3) Principal problems of political philosophy, with emphasis on philosophical and religious legitimation of political institutions and on the nature of justice and law.
- PL 356 **MARXISM AND LITERATURE** (3) Marxist literary theory and its application to particular texts and literary-historical problems.
- PL 365 **PLATO** (3) Study in the interpretation of Plato's writings, with emphasis on the later dialogues.
- PL 366 **ARISTOTLE** (3) Study of the main philosophical works of Aristotle, with emphasis on his methodology and historic role.
- PL 371 **AQUINAS AND BONAVENTURE** (3) Thirteenth century adventure of philosophizing Christians assimilating Jewish, Greek, and Islamic thought. Intellectual crisis of 1250-1275.
- PL 373 **HOBBS AND ARISTOTLE** (3) Ancient and modern nature, cosmos, system, method, natural right and politics contrasted in paradigmatic texts of Hobbes and Aristotle.
- PL 375 **KANT** (3) A textual study of the *Critique of Pure Reason* and its relation to other works of Kant.
- PL 376 **HEGEL** (3) Introduction to the philosophical system of Hegel from the *Phenomenology of Spirit*. Emphasis on Hegel's method of philosophizing.
- PL 377 **MARX** (3) Critical examination of the development of Marx's philosophy from its roots in Hegel and Feuerbach or an intensive examination of Marx's mature works, *Grundrisse* or *Kapital*.
- PL 379 **NIETZSCHE** (3) An in-depth reading of several of Nietzsche's works, emphasizing his relation to the philosophical tradition as well as to the crisis of the twentieth century.
- PL 381 **JOSIAH ROYCE** (3) A study and critique of *The Problem of Christianity* by this prophet of secular Christianity.
- PL 391 **HEIDEGGER** (3) Study of Heidegger's great work, *Being and Time*, and of his later thought.

PL 398 SENIOR SEMINAR (3)

PL 399 SENIOR SEMINAR (3)

Physics (PH)

Staff: DR. TOEPKER, *chair*; DR. BRESSER, MR. HART, DR. MILLER, DR. YERIAN

Assisted by: DR. BURGESS, MS. WHALEN

Lower Division Courses

PH 104, COLLEGE PHYSICS I, II (3 each semester) For pre-med, pre-dent, and others.

PH 106 Mechanics, heat, sound, electromagnetism, optics, and modern physics. Corequisite: PH 105 and 107 laboratory. Prerequisite: Algebra.

PH 105, INTRODUCTORY PHYSICS LABORATORY I, II (1 each semester). These laboratories accompany PH 104 or 108 and PH 106 or 110 lectures respectively.

PH 108 UNIVERSITY PHYSICS I (3) Course for chemistry, computer science, mathematics, and physics majors. Mechanics, heat, sound. Corequisite: PH 105.

PH 110 UNIVERSITY PHYSICS II (3) Continuation of PH 108. Electromagnetism, optics, and modern physics. Corequisite: PH 107.

PH 114 INTRODUCTION TO PHYSICAL SCIENCES (3) For elementary education majors only.

PH 115 INTRODUCTION TO PHYSICAL SCIENCES LABORATORY (1). Laboratory is required to accompany PH 114.

PH 116 OUR UNIVERSE—THE EARTH (2) An introductory course in earth science. Corequisite: PH 117.

PH 117 OUR UNIVERSE—THE EARTH LABORATORY (1) Laboratory is required to accompany PH 116.

PH 118 OUR UNIVERSE—THE SKY (2) An introductory course in astronomy. Corequisite: PH 119.

PH 119 OUR UNIVERSE—THE SKY LABORATORY (1) Laboratory is required to accompany PH 118.

PH 120 RADIOLOGIC PHYSICS I (2) Energy, the structure of matter, electricity, magnetism, radioactivity, and the nature and production of X-rays. Calculations in radiology. For radiologic technology students.

PH 121 RADIOLOGIC PHYSICS II (2) A Continuation of Ph 120.

PH 122 ENERGY SOURCES AND USES (2) An introductory course that surveys various forms of energy and studies practical, economical applications.

PH 123 ENERGY LABORATORY (1) Accompanies PH 122.

PH 137 HOLOGRAPHY—LASER PHOTOGRAPHY (3)

PH 162, ANALOG COMPUTERS IN PHYSICS I, II (1 each semester). The use of the analog computer in simulation of problems involving mechanical and electrical vibrations, probability, and biorhythms.

Upper Division Courses

PH 204 ANALOG COMPUTER WORKSHOP (3).

PH 205 TIME-SHARING COMPUTER WORKSHOP (3).

Physics

- PH 206, **ADVANCED STUDY OF BASIC PHYSICS I, II** (3 each semester). The broad implications of the fundamental principles of general physics. Prerequisite: General Physics or equivalent.
- PH 207
- PH 242 **ELECTRONICS I**, (2) A.C. and D.C. measuring instruments. Basic analog circuits including power supplies, filters, transistors, and integrated circuit amplifiers and wave-form generators.
- PH 244 **ELECTRONICS II** (2) Digital components and circuits, microcomputer architecture and machine language programming, interfacing circuits. (CS 244)
- PH 243, **ELECTRONICS LABORATORY I, II** (1 each semester). Laboratory to accompany PH 245 PH 242, 244 respectively. (CS 245)
- PH 245
- PH 350 **THEORETICAL MECHANICS I** (3) Statics, equilibrium of rigid bodies, analysis of structure, friction, machines.
- PH 351 **THEORETICAL MECHANICS II** (3) Dynamics, kinematics of particles and rigid bodies, conservation of energy and momentum, inertial matrices.
- PH 352 **ELECTRICITY AND MAGNETISM** (3) Coulomb's law, Ampere's law, Faraday's law, Maxwell's electromagnetic equations in free space and material media. Course is given in vector notation.
- PH 356 **METHODS OF MATHEMATICAL PHYSICS** (3) Matrix and vector algebra, complex variables, integral transforms, and linear partial differential equations.
- PH 364 **PHYSICAL OPTICS** (3) Electromagnetic wave theory is used to derive the laws of optics: reflection, refraction, diffraction, Fresnel integrals, and theory of dispersion.
- PH 365 **OPTICS LABORATORY** (1) Experiments in Physical Optics, including diffraction, Michelson's interferometer, multiple beam interference, polarization, various experiments on the prism spectrograph, and holography.
- PH 366 **ATOMIC PHYSICS** (3) The atomic view of matter, electricity, and radiation; the atomic models of Rutherford and Bohr, relativity, X-rays, and introduction to quantum mechanics.
- PH 367 **ATOMIC PHYSICS LABORATORY** (2) Photoelectric effect, e/m for electrons, black body radiation, vacuum and glass work techniques, ionization potentials, Bragg diffraction, atomic spectra, X-ray spectra.
- PH 372 **ADVANCED E & M THEORY** (2) Lasers, holography, spatial filtering, and coherence of electromagnetic radiation.
- PH 374 **NUCLEAR PHYSICS** (3) Natural and artificial radioactivity, nuclear reactions, high-energy physics, and fundamental particles. Prerequisite: PH 366.
- PH 376 **INTRODUCTION TO QUANTUM MECHANICS** (3) The mathematical formalism of quantum mechanics and its physical interpretation. Prerequisite: PH 366.
- PH 381 **NUCLEAR PHYSICS LABORATORY** (1) Experiments in radioisotope techniques, nuclear particle counting, activation analysis, scattering, and reactor criticality.
- PH 382 **THERMODYNAMICS** (3) Thermodynamic variables and processes, internal energy of a system, first and second laws of thermodynamics, Carnot cycle, entropy and irreversibility.
- PH 388 **GEO-ASTROPHYSICS** (3) The applied fields of geophysics, atmospheric physics, astronomy, and astrophysics.
- PH 389 **INTRODUCTION TO SOLID STATE PHYSICS** (3) Topics include: Crystallography, specific heat, phonons, band theory, Fermi surfaces, superconductivity. Survey of structural, thermal, electrical, and magnetic properties of matter in solid state.
- PH 390 **SPECIAL STUDIES** (3) Area to be specified.

Political Science and Sociology

- PH 395 **PHYSICS RESEARCH I** (1). (Junior year)
- PH 396 **PHYSICS RESEARCH II** (1). (Junior year)
- PH 397 **SPECIAL READINGS** (1-3) Area to be specified.
- PH 398 **SENIOR RESEARCH** (1-3).
- PH 399 **PHYSICS SEMINAR** (1) (Senior year)
- PH 410 **HANDS-ON DEVELOPMENTAL SCIENCE** (2) (ED 410).
- PH 411 **WORKSHOP: BASIC ELECTRONICS FOR TEACHERS** (2) (ED 411).

For MA (Secondary Teaching) degree program only:

- PH 510 **THEORY & EXPERIMENTS IN MECHANICS** (3).
- PH 520 **THEORY & EXPERIMENTS IN ELECTRONICS** (3).
- PH 530 **THEORY & EXPERIMENTS IN OPTICS** (3).
- PH 540 **THEORY & EXPERIMENTS IN ATOMIC PHYSICS** (3).
- PH 550 **THEORY & EXPERIMENTS IN NUCLEAR PHYSICS** (3).
- PH 560 **DEMONSTRATION TECHNIQUES IN PHYSICS** (3).

Political Science (PO) and Sociology (SO)

Staff: DR. HEIGHBERGER, *chair*; FR. JOHNSON, DR. MOULTON, MR. WEIR, DR. WEISSBUCH

Assisted by: MR. BEAUPRE, MS. GOODELL, MR. MALONEY, MS. MARMER, MR. TRAINA

Political Science (PO)

Lower Division Courses

- PO 101 **PRINCIPLES OF GOVERNMENT** (3) Principles of political parties, national government, foreign policy, and international relations. Contemporary problems. Professional thought patterns and motivation.
- PO 110 **AMERICAN GOVERNMENT AND POLITICS** (3) Legal, behavioral, historic, and contemporary aspects of the American political system. (CJ 110).

Upper Division Courses

- PO 221 **COMPARATIVE GOVERNMENT** (3) The politics of Great Britain, France, and Sweden. Political developments, governmental institutions, parties, pressure groups, electoral systems, and the structure of society.
- PO 233 **POLITICAL PHILOSOPHY** (3) Survey of the major Western political philosophers, including Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Marx and J.S. Mill.
- PO 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 243 **CONSTITUTIONAL GOVERNMENT OF ENGLAND** (3) Constitutional and current political trends in contemporary England. Weekly review of events in the order established by the British Constitution.
- PO 244 **POLITICS OF WAR AND PEACE** (3) How the American political system deals with the questions of war and peace.

Political Science and Sociology

- PO 246 **CINCINNATI GOVERNMENT AND POLITICS** (1 or 2)
- PO 249 **INTERNATIONAL ORGANIZATIONS** (3) The United Nations. Modern society of sovereign nations. International law. Diplomacy. Arbitration and judicial settlement.
- PO 260 **POLITICAL SOCIOLOGY** (3) SO 260).
- PO 266 **BISMARCK AND THE UNIFICATION OF GERMANY** (3) The restoration in Germany, 1814-48. The Revolution of 1848. The second restoration, 1849-62. Bismarck: his appointment, his policies. The three wars. The creation of the second Reich, 1871. Economic and social changes, 1871-90. The growth of political parties. Bismarck's dismissal, 1890. Wilhelmian Germany, 1888-1914. The origins of WWI.
- PO 267 **NAZI GERMANY** (3) The rise and fall of Adolf Hitler. The revolution of 1918-19. The Weimar Republic. Inflation of 1923. Origins of the NSDAP. Nazi ideology. The seizure of power, 1933. The "co-ordination" of Germany. The German Army under Hitler. The SS and Himmler. Foreign policy. The persecution and murder of the Jews. The German opposition to Hitler.
- PO 268 **MODERN GERMANY** (3) Germany since 1945. The division of Germany into occupation zones. Denazification. The allied administration of Germany, 1945-49. The economic recovery. The creation of the Federal Republic. Political parties, interest groups, and parliament. The election system. Executive branch. German federalism. The courts and legal system. West German foreign policy. The relationship with East Germany.
- PO 275 **SOUTHEAST ASIA SINCE WORLD WAR II** (3) A political and geographic survey of the varied and colorful countries of East Asia, in which the technological revolution is proceeding at a fast pace.
- PO 285 **JAPAN AND THE ASIA-PACIFIC** (3) A survey of contemporary Japanese culture is followed by an analysis of Japanese public administration and government. Political aspects of economic foreign policy are also considered.
- PO 298 **ADVANCED READING AND RESEARCH.** Credit to be arranged.
- PO 332 **INTRODUCTION TO PUBLIC ADMINISTRATION** (3) Local and state. Primary emphasis is on national problems and the federal civil service.
- PO 333 **POLITICS AND MANAGEMENT OF FEDERALISM** (3).
- PO 340 **THE PRESIDENCY** (3) Federal-State relationships. The constitutional concept of the office. The President as administrator, as commander-in-chief in wartime, as organ of foreign relations, and as political leader.
- PO 345 **PRESSURE GROUPS AND CONGRESS** (3) A study of pressure groups and group theory as it applies to the United States. Special emphasis on the structure and operation of Congress.
- PO 352 **PRINCIPLES OF RESEARCH** (3) (SO 352).
- PO 353 **INTERMEDIATE SOCIAL RESEARCH** (3) (SO 353).
- PO 358 **URBAN AMERICA** (3).
- PO 362 **CAMPAIGNS, ELECTIONS AND PARTIES** (3).
- PO 370 **FOREIGN AFFAIRS IN THE UNITED STATES** (3) Current policies and operations. State Department organization. The Career Foreign Service and related agencies.
- PO 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.
- PO 375 **PROBLEMS IN POLITICAL GEOGRAPHY** (3) Contemporary foreign policy in its many geographical and environmental relationships. Population, raw materials, and the history of geopolitical theories.

Political Science and Sociology

- PO 376 **INTERNATIONAL LAW** (3) The nature and uses of international law. International legal persons, recognition, and succession. State territory. Jurisdiction. The law of treaties. Legal regulation of use of force.
- PO 377 **INTERNATIONAL RELATIONS** (3) The theory of international relations. Nationalism. Imperialism. Disarmament and Arms Control. Diplomacy. Collective Security.
- PO 390 **SEMINAR IN INTERNATIONAL RELATIONS** (3) Senior comprehensive paper. Research methods.
- PO 391 **SEMINAR IN AMERICAN GOVERNMENT** (3) Selected problems. The processes of American government in dealing with problems. Taken in senior year.
- PO 392 **INTERNSHIP: WASHINGTON, D.C.** (6).
- PO 395 **DIRECTED STUDY.** Credit to be arranged.
- PO 396 **INTERNATIONAL AFFAIRS INTERNSHIP** (3).
- PO 397 **INTERNSHIP: LOCAL GOVERNMENT** (3) (SO 397).

Sociology (SO)

Lower Division Courses

- SO 101 **INTRODUCTION TO SOCIOLOGY** (3) Social behavior within the context of group structure, society, and culture. Basic sociological terminology and methodology.
- SO 180 **CULTURAL ANTHROPOLOGY** (3) Concepts and materials of culture from the field of ethnography, ethnology, and archaeology. Origin, development, universals and variations of culture through cross-cultural analysis.

Upper Division Courses

- SO 216 **SOCIOLOGY OF RELIGION** (3) Classical and contemporary sociological perspectives concerning relationship between religion and society.
- SO 230 **SOCIOLOGY OF LEISURE AND RECREATION** (3) The role and functions of leisure and recreation in culture and society.
- SO 232 **SOCIOLOGY OF SPORT** (3) Organized sport as an important institutional component of American culture and society.
- SO 242 **URBAN SOCIOLOGY** (3) Historical development and demographic patterns of the city and its environs. Sociocultural and ecological perspectives used to examine urban, suburban, and rural areas.
- SO 250 **RACIAL AND ETHNIC MINORITIES** (3) Minority groups in contemporary United States. Social processes involved in dominant minority relations.
- SO 260 **POLITICAL SOCIOLOGY** (3) Bureaucratic organization, authority, power, and voting behavior in political institutions. Relationships to social conditions and social institutions.
- SO 262 **WOMEN IN AMERICAN SOCIETY** (3) Women in social, economic, and structural (bureaucratic) settings. An examination of changing roles and status.
- SO 265 **CLASS AND CLASS CONFLICT** (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective. (CJ 265).
- SO 266 **UTOPIAN COMMUNITIES** (3) Course examines, in historical and contemporary settings, Utopian writings and actual attempts at establishing Utopian situations.
- SO 282 **ANTHROPOLOGY OF THE AMERICAN INDIAN** (3) Prehistory and development of Indian culture in North America. Similarities and differences by cultural area.

Psychology

- SO 285 **MAGIC AND WITCHCRAFT** (3) Mysticism and the supernatural in social context. Discovering the meanings and functions of magic and witchcraft within various cultural contexts.
- SO 290 **CRIMINOLOGY AND PENOLOGY** (3) Causative theories of crime. Crimes and criminals in the context of behavioral systems. Policies and programs of legal treatment. (CJ 290).
- SO 292 **JUVENILE DELINQUENCY** (3) Multiple factors involved in delinquent behavior. Definition, extent, causation, and treatment. (CJ 292).
- SO 300 **SOCIOLOGICAL THEORIES** (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.
- SO 310 **MARRIAGE AND THE FAMILY** (3) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting. (PS 310, TH 310).
- SO 316 **COMPLEX ORGANIZATIONS** (3) A critical survey of formal organizations and the social processes and behaviors associated with them. Authority, control, motivation, socialization, and alienation are among the areas to be discussed. (MG 316).
- SO 345 **APPALACHIAN IN URBAN LIFE** (3) Subcultural contact with the urban community. Social and economic adjustment problems of this group. (ED 245).
- SO 352 **PRINCIPLES OF RESEARCH** (3) (PO 352).
- SO 353 **INTERMEDIATE SOCIAL RESEARCH** (3) (PO 353).
- SO 371 **SOCIOLOGY OF INDUSTRY AND SOCIETY** (3) Relationship of industry to the greater social system. Structure, function and strain of industrial roles.
- SO 395 **DIRECTED STUDY** Credit to be arranged.
- SO 397 **INTERNSHIP: SOCIAL SERVICE** (3) (HS 397, PO 397).

Psychology

Staff: DR. HELLKAMP, *chair*; DR. BARRY, DR. BIELIAUSKAS, Riley Professor, DR. BERG, DR. CHIAPPONE, DR. COSGROVE, DR. DACEY, DR. DEARDORFF, FR. FOLEY, DR. KINNEY, DR. KRONENBERGER, DR. NELSON, DR. QUATMAN, DR. SCHMIDT, DR. SCHMIDTGOESSLING

Assisted by: DR. DAHMAN, MR. DINERMAN, DR. EBERLEIN, SR. FLEMING, MS. GLUECK, DR. JUDD, DR. KAPP, DR. LEHMAN, DR. MEZINSKIS, DR. NORTON, DR. SCHNEIDER

Lower Division Courses

- PS 100 **EFFICIENT READING AND STUDY SKILLS** (1) Reading comprehension, rate of reading, study habits. Increase ability to interpret, analyze, and evaluate general reading material and specific course areas.
- PS 101 **GENERAL PSYCHOLOGY** (3) Basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, personality development.
- PS 102 **ADVANCED GENERAL PSYCHOLOGY** (3) Scientific methodology in psychology. Application to experimental studies in perception, motivation, thinking, memory, learning, individual differences. Prerequisite: PS 101.
- PS 121 **GENERAL EXPERIMENTAL PSYCHOLOGY I** (2) Principles of behavioral science: sensory functions, perception, learning, emotion, motivation. Fulfills science requirement for non-psychology majors.

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- PS 122 **GENERAL EXPERIMENTAL PSYCHOLOGY I LABORATORY** (1) (Three laboratory hours per week.) Laboratory experiments demonstrating principles described in the lectures (PS 121). To be taken with PS 121.
- PS 123 **GENERAL EXPERIMENTAL PSYCHOLOGY II** (2) Behavior problems: memory, language, interpersonal behavior, personality, human performance, man-machine systems. Fulfills science requirement for non-psychology majors. See Ps 124.
- PS 124 **GENERAL EXPERIMENTAL PSYCHOLOGY II LABORATORY** (1) (Three laboratory hours per week.) Experiments demonstrating principles described in the lectures (PS 123). To be taken with PS 123.
- PS 141 **HUMAN GROWTH AND DEVELOPMENT I** (3) (ED 141).
- PS 142 **HUMAN GROWTH AND DEVELOPMENT II** (E) (ED 142).

Upper Division Courses

- PS 201 **HISTORY AND SYSTEMS OF PSYCHOLOGY** (2-3) Modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required.
- PS 210 **STATISTICAL TECHNIQUES** (2-3) Basic statistics in psychology and education. Measures of central tendency and variability, correlational techniques, and experimental test of differences among groups. (ED 510).
- PS 215 **HUMAN LIFE CYCLE I: CHILD** (3) Psychological, physiological, and social development of the child from conception to adolescence.
- PS 216 **HUMAN LIFE CYCLE II: ADOLESCENT – ADULT** (3) Psychological, physiological, and social approach to development and experience from adolescence to death. (Interdisciplinarily taught) (SW 216).
- PS 221 **EXPERIMENTAL PSYCHOLOGY I** (3) Aims and techniques of experimental psychology. Physiological bases of behavior, senses, perception. One lecture, four hours lab per week. Prerequisites: PS 101, 102, 210.
- PS 222 **EXPERIMENTAL PSYCHOLOGY II** (3) Learning, emotion, motivation, social behavior. Animal and human subjects. Planning. Instrumentation. Controls. One lecture, four hours lab per week. Prerequisite: PS 221.
- PS 231 **DEVELOPMENTAL PSYCHOLOGY** (3) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration. (ED 231).
- PS 232 **CHILD PSYCHOLOGY** (2-3) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (ED 232).
- PS 233 **ADOLESCENT PSYCHOLOGY** (2-3) Interrelated physical, social, and moral development associated with youth and adolescence. (ED 233).
- PS 235, PS 236 **PSYCHOLOGY OF GROWTH AND DEVELOPMENT I & II** (3,3) The study of human development from conception through death with a special emphasis on physical maturation and decline.
- PS 251 **INDUSTRIAL PSYCHOLOGY** (2-3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American industry. (IR 330, MG 321).
- PS 261 **SOCIAL PSYCHOLOGY** (2-3) The individual's personality, attitudes, and behavior in multi-individual situations. (ED 261, SW 261).
- PS 266 **CRIME AND PERSONALITY** (3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (CJ 266, CJ 566, ED 166).

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- PS 271 **INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD** (2) (ED 271).
- PS 274 **MENTAL HYGIENE** (2) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (ED 274).
- PS 276 **PSYCHOLOGY OF DELINQUENCY** (2) Types and causes of juvenile delinquency together with brief case histories. (CJ 276, CJ 576, ED 276).
- PS 277 **ABNORMAL PSYCHOLOGY** (2-3) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. (ED 277).
- PS 279 **PSYCHOLOGICAL AND ACHIEVEMENT TESTS** (2-3) Principles of mental testing — norms, reliability, validity, — along with a familiarization of various psychological tests and discussion of factors in mental testing, e. g., anxiety, maturation, ethics, sources, scoring techniques. (ED 579).
- PS 281 **READINGS IN PSYCHOLOGY** (1-3) Library research project assisted and supervised by staff member. Final oral exam. Seniors, graduate students only. Required research paper.
- PS 285 **PSYCHOLOGY OF RELIGION** (3) The discipline which examines religiousness and the religious personality from a psychological perspective. (TH 285).
- PS 287 **HUMANISTIC PSYCHOLOGY** (3) (ED 587).
- PS 290 **UNDERGRADUATE PRACTICUM IN PSYCHOLOGY** (3) Interviewing, behavior observation, test administration, report writing, and group dynamics through on-the-job training. Open to seniors only, upon approval of the Department Chair.
- PS 299 **SENIOR COMPREHENSIVE REVIEW** (2) Required of all majors. May substitute original research project upon approval of Department Chair. Prerequisites: senior standing and instructor's approval.
- PS 310 **MARRIAGE AND THE FAMILY** (3) An interdisciplinary course taught simultaneously by a psychologist, sociologist and theologian, each looking at marriage and family from their perspectives. In addition, married couple specialists from law and medicine present as guest speakers. (SO 310, TH 310).
- PS 352 **INTRODUCTION TO CLINICAL PSYCHOLOGY** (3) The course is designed to provide an understanding of the different types of activities typically engaged in by clinical psychologists.
- PS 365 **PSYCHOLOGY OF WOMEN** (2-3) (ED 365).
- PS 367 **PSYCHOLOGY OF AGING** (3) The interrelationship between biological-cognitive personality and social changes associated with aging.
- PS 395 **DIRECTED STUDY** Credit to be arranged.
- PS 409 **GROUP DYNAMICS** (3) In depth consideration of basic dynamics and processes operating in groups and the various strategies used in the group approach as they relate to educational, business, social and personal interactions and problems. (SW 409).
- PS 426 **PHYSIOLOGICAL PSYCHOLOGY** (3) An overview of the structure and function of the human nervous system as it is involved in human processes such as memory, emotion, learning, and motivation.
- PS 463 **THEORIES OF PERSONALITY I** (2-3) Concepts of personality dynamics. Emotions and their expressions. Mutual interrelationships and meaning. Sources of personality development. (ED 463).
- PS 464 **THEORIES OF PERSONALITY II** (2-3) Description and evaluation of current personality theories. Continuation of PS 463. (ED 464).

Psychology

- PS 477 **SPORTS PSYCHOLOGY** (2-3) The course will deal with behavior and sports, emphasizing during the semester the areas of personality and sports, anxiety and arousal in sports motivation, aggression, group dynamics, socialization and exercise.

Graduate Courses

The following courses are required of all graduate students: 463, 464, 501, 502, 511, and 521.

- PS 501 **CONTEMPORARY THEORIES IN PSYCHOLOGY** (3) An evaluative review of the concepts basic to current theory, research, and practice in psychology and its major divisions.
- PS 502 **PHILOSOPHICAL ISSUES IN PSYCHOLOGY** (3) Historical development of basic psychological concepts from Aristotle to the present. Interrelations between science, art, philosophy, and theology in understanding human nature.
- PS 503 **ADVANCED EDUCATIONAL PSYCHOLOGY** (3) The course is aimed at extending each student's knowledge of recent developments in psychology as applicable to the field of education. (ED 503).
- PS 505 **PROFESSIONAL PROBLEMS IN PSYCHOLOGY** (1) Basic principles of ethics and their application to psychological theory, research, and practice. Case studies.
- PS 511 **ADVANCED STATISTICS** (3) Elementary correlation methods. Serial correlation. Multiple regression. Factor analysis. Non-parametric statistics. Analysis of variance. (ED 511).
- PS 521 **ADVANCED EXPERIMENTAL PSYCHOLOGY** (3) Intensive survey of experimental procedures and findings; utilization of laboratory equipment; introduction to individual laboratory research.
- PS 529 **BEHAVIOR THERAPY** (3) Theoretical and empirical bases of behavior therapy. Projects using different techniques in a variety of settings with a variety of problems. (ED 529).
- PS 530 **LEARNING AND MOTIVATION** (3) Theories of learning. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention, and forgetting. (ED 503).
- PS 532 **PRINCIPLES OF GUIDANCE** (2) A basic introduction to the area guidance and counseling services in the schools. (ED 532).
- PS 533 **COUNSELING PRINCIPLES AND TECHNIQUES** (2) Foundations of counseling, specific methods used in counseling, basic issues related to the counseling process and special problems that are part of the counseling process are covered in this course. (ED 533).
- PS 535 **OCCUPATIONAL INFORMATION** (3) Designed to increase the knowledge of future counselors and administrators about occupations and careers to enable them to communicate this information to students and other people.
- PS 536 **GROUP GUIDANCE** (2) (ED 536).
- PS 553 **MARKETING RESEARCH** (3) (BA 562).
- PS 580 **PSYCHOPATHOLOGY** (2) (ED 580).
- PS 582 **INDIVIDUAL TESTS OF INTELLIGENCE** (3-4) This course is designed to teach clinical assessment skills in intelligence testing. Department Chair's permission is necessary.
- PS 584 **PERSONALITY ASSESSMENT TECHNIQUES I** (3) Administration, scoring, and interpretation of the Rorschach and TAT. Department Chair's permission is necessary.

Psychology

- PS 585 **PERSONALITY ASSESSMENT TECHNIQUES II** (3) The fundamental principles involved in the administration, scoring, analysis and evaluation of the MMPI, CPI, Bender-Gestalt, H-T-P and other tests are covered in this course. Department Chair's permission is necessary.
- PS 589 **COUNSELING AND PSYCHOTHERAPY** (3)
- PS 590 **PRACTICUM: EXPERIMENTAL PSYCHOLOGY** (3).
- PS 591 **PRACTICUM: CLINICAL PSYCHOLOGY** (3).
- PS 592 **PRACTICUM: COUNSELING PSYCHOLOGY** (3).
- PS 593 **PRACTICUM: INDUSTRIAL PSYCHOLOGY** (3).
- PS 598 **INTRODUCTION TO PSYCHOLOGICAL TREATMENT METHODS** (3).
- PS 600- **WORKSHOPS AND INSTITUTES** Titles and credit hours will be announced in each
PS 629 individual case.
- PS 643 **SEMINAR: INDUSTRIAL PSYCHOLOGY** (3).
- PS 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS** (3) To help students gain knowledge of various concepts and controversies relating to attempts to explain the motivation and behavior of people in organizations. (ED 644, BA 644).
- PS 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD** (3) (ED 646).
- PS 647 **CLINICAL STUDY OF THE EMOTIONALLY DISTURBED CHILD** (2) Introduces students to practical diagnostic and treatment procedures in their contact with the emotionally disturbed child. (ED 647).
- PS 648 **TEACHING PRACTICUM: LEARNING AND BEHAVIOR DISORDERS** (2-3) (ED 648).
- PS 649 **TEACHING INTERNSHIP: LEARNING AND BEHAVIOR DISORDERS** (4-6) (ED 649).
- PS 652 **CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT** (3) (ED 652).
- PS 653 **EARLY COGNITIVE DEVELOPMENT** (3) (ED 653).
- PS 670 **PSYCHOLOGY OF READING** (2) (ED 670).
- PS 689 **RESEARCH IN PSYCHOLOGY** (3) Titles to be specified.
- PS 699 **MASTER'S THESIS** (6).



Theatre Arts (TR)

Staff: MR. BANKS, *acting chair*; MR. MODIC

Assisted by: MRS. C. BROCKMAN

Lower Division Courses

- TR 105 **INTRODUCTION TO THEATRE** (3) Designed to acquaint theatre majors and other interested students with professional theatre.
- TR 106 **ACTING I** (3) An introduction to and familiarization with the basic principles of acting as they deal with the creation and interpretation of a role from a specific play.
- TR 108 **PLAY DIRECTION I** (3) An introduction to the basic elements of directing for the theatre. Included are the studies of composition, picturization, movement, and pantomimic dramatization.

Upper Division Courses

- TR 201 **VOICE AND DICTION** (3) (CA 102).
- TR 202 **INTRODUCTION TO SCENE DESIGN** (3) Principles and projects in theatrical scene design—emphasis on mechanical perspective, color, and form.
- TR 204 **ORAL INTERPRETATION** (3) A performance course acquainting the student with interpretation and vocal performance of all forms of printed text.
- TR 205 **JAZZ DANCE TECHNIQUE I** (3) A performance course to help the student gain a physical strength in executing the basic skills of jazz techniques.
- TR 206 **STAGE MOVEMENT** (3) An introduction to the basic dance techniques and the creative use of movement including strength, flexibility, and control.
- TR 208 **THEATRE PRACTICUM—COSTUME** (1-4) Supervised Lab practice in the design and execution of costumes.
- TR 209 **THEATRE PRACTICUM—TECHNICAL THEATRE LIGHTING** (1-4) Supervised Lab practice in the design and execution of scenery, lighting, properties, and sound.
- TR 210 **THEATRE PRACTICUM—AUDIENCE DEVELOPMENT** (1-4) Supervised Lab practice in problems of theatre publicity, finance, and house management.
- TR 211 **THEATRE PRACTICUM—DIRECTING/STAGE MANAGEMENT** (1-4) Supervised Lab practice in basic rehearsal techniques and procedures.
- TR 212 **INTRODUCTION TO COSTUME DESIGN** (1-4) Application of principles of design to stage costuming with emphasis on fabrics, figure drawing, and characterization.
- TR 220 **PLAY PRODUCTION** (3) Fundamentals of theatrical production, both theoretical and practical.
- TR 222 **INTRODUCTION TO LIGHTING** (3) Fundamentals of theatrical lighting design and execution for proscenium and nonproscenium forms.
- TR 223 **PRINCIPLES OF THEATRICAL MAKE-UP** (3) To acquaint the student with the basic principles of the art and technique so they may be used creatively in the design and execution of make-ups.
- TR 302 **COSTUME HISTORY** (3) Development of costume from pre-Greek era; emphasis on clothing as reflection of Western cultural development.
- TR 305 **JAZZ DANCE TECHNIQUE II** (3) Intermediate skill level in jazz techniques with increased emphasis on physical strength and extension, turning, and coordination development.

Theology

- TR 306 **COSTUME CONSTRUCTION** (3) Principles and practice of theatrical costuming with emphasis on construction technique and fabrics.
- TR 307 **ACTING II** (3) Specialized problems in acting relative to varied types of plays and periods. Advanced role study and characterization. Prerequisite: TR 106 or approval of instructor.
- TR 308 **STAGE MOVEMENT II** (3) An extension of the basic techniques of dance and creative movement, plus the use of a variety of movement qualities in characterization.
- TR 309 **SURVEY OF THEATRE HISTORY** (3) A study of theatrical practices in the Western world from ancient Greece to the present.
- TR 310 **SURVEY OF DRAMATIC LITERATURE** (3) (EN 122).
- TR 314 **MUSICAL THEATRE DANCE** (3) A course to develop individual and ensemble dance performance qualities. Partnering is introduced.
- TR 321 **STAGECRAFT** (3) Procedures and practices in theatrical production with emphasis on stage settings and properties.
- TR 331 **THE HISTORY OF THE AMERICAN MUSICAL COMEDY** (3) To introduce and familiarize the student with the current dominant form of American theatre, the Musical Comedy.
- TR 401 **STUDIES IN SHAKESPEARE** (3) (EN 135).
- TR 402 **SHAKESPEARE: HISTORIES AND COMEDIES** (3) (EN 326).
- TR 403 **SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES** (3) (EN 327).
- TR 404 **COSTUME DESIGN** (3) The theory and practice of designing and executing various theatre period and contemporary costumes.
- TR 405 **MODERN DRAMA** (3) (EN 372).
- TR 406 **CONTEMPORARY DRAMA** (3) (EN 373).
- TR 407 **ACTING—SPECIAL STYLES** (3) An intensive study and performance of specialized acting styles from Greco-Roman theatre through Moliere to present-day realism.
- TR 418 **DIRECTING II** (3) Advanced study of directional problems, in various types of physical theatres including arena and thrust stages. Musical comedy and opera staging is also reviewed.
- TR 421 **SENIOR SEMINAR** (3) To achieve a synthesis of the varying areas of theatre study into one general theory of Drama and indicate specific practices that grow from this unified whole.
- TR 450 **STUDIES IN SCENIC DESIGN II** (3) (See Instructor).
- TR 451 **ADVANCED TECHNICAL PROBLEMS** (3) (See Instructor).

Theology (TH)

Staff: FR. OVERBERG *chair*; FR. BRACKEN, FR. CARTER, DR. DEWEY, SR. GRAF, DR. GUDORF, DR. HILL, DR. KELLER, FR. KING, DR. KNITTER, DR. MADGES

Assisted by: MS. BESL, RABBI SIMON, REV. THOMPSON, DR. WAGENAAR

Lower Division Course

- TH 111 **INTRODUCTION TO THEOLOGY** (3) The nature of revelation, religion, and reform examined in general terms and then illustrated from religious traditions. (Required of all students as their first theology course.)

Upper Division Courses

- TH 201 **A SURVEY OF CHURCH HISTORY** (3) A survey of the development of the Church, in its institutional and theological dimensions, from the New Testament era to the 20th century. Special attention given to the Church's changing relationship to society and the development of doctrine in response to the needs of different ages and cultures. (Limited to majors and other interested and qualified students.) (HS 210).
- TH 205 **CHRISTIAN DOCTRINE I** (3) Introduction to major systematic questions in Christian theology: Church, sacraments, and living the Christian life. (Limited to majors and other interested and qualified students.)
- TH 206 **CHRISTIAN DOCTRINE II** (3) Introduction to major systematic questions in Christian theology: faith, God, Christology. (Limited to majors and other interested and qualified students.)
- TH 208 **MYSTERY OF CHRIST** (3) In a world of many religions and religious figures, how can Christians continue to speak about the uniqueness of Jesus? This question is explored against the background of Christian scripture/tradition and contemporary inter-religious dialogue.
- TH 211 **THEOLOGY OF THE HOLY SPIRIT** (3) The Holy Spirit in Christian tradition and theology; discernment of the Spirit's activity, operation of His charisms; Holy Spirit in Catholicism, Protestantism, and Pentecostalism.
- TH 212 **GOD: HE OR SHE?** (3) Exploration of patriarchal influence in the Bible and in the history of Christianity and an evaluation of contemporary efforts toward a non-patriarchal Christianity.
- TH 218 **MYTH AND SYMBOL** (3) How do symbols open new dimensions of experience? What do goddesses and gods have to do with us? Ancient myths, modern symbols, and a variety of interpretive frameworks explored.
- TH 219 **LIFE AFTER DEATH** (3) The question of possible existence after death; views of contemporary philosophy, psychology, parapsychology, sociology, literature, with special attention given to the Christian, Buddhist, and Hindu traditions.
- TH 222 **CHRISTIAN LIFE AND CELEBRATION** (3) Theology of the Christian life; liturgy, religious psychology, secular involvement, the Christian virtues, prayer, Christian community.
- TH 223 **SACRAMENTS TODAY** (3) Meaning of sacraments in general and Christian sacraments in particular. Historical and theological development of the seven ecclesial sacraments and their place in contemporary liturgical, pastoral, and spiritual renewal.
- TH 229 **WHY A CHURCH?** (3) Nature and relevance of church-organized religion in light of the message of Jesus and of the needs of contemporary society.
- TH 232 **APPROACHES TO GOD** (3) Divine transcendence and the possibilities of human knowledge and experience of God. Contemporary problems of belief, unbelief, atheism.
- TH 233 **UNDERSTANDING CATHOLICISM** (3) A study of the central Catholic doctrines, showing the historical conditions from which they arose and discussing their meaning for thoughtful people today. Topics include: God, Jesus, Church, grace, sin, and the sacraments.
- TH 234 **BLACK CHURCH IN THEOLOGY** (3) An interior view into the Black theological experience. Need to look at theology from a Black perspective. Roots of the Black Church as its response to bigotry of white churches and society.
- TH 236 **THE CHRISTIAN IN THE WORLD** (3) The secularization process in history; secularization and secularity; relation of the sacred and the secular; the Christian's involvement in the world.

Theology

- TH 238 **WOMEN AND RELIGION** (3) History of Christian teachings on woman's nature and place, interplay of religion and feminism in the 19th and 20th centuries, emphasis on recent feminist theology.
- TH 244 **HISTORY OF THE EARLY CHURCH** (3) Period of the integration of Christianity into Greek and Roman society, its conflict with paganism, and its development during the first six centuries.
- TH 245 **HISTORY OF THE CHURCH IN THE MIDDLE AGES** (3) Period of the rise of the Church to a position of dominance in Western society, from the seventh century to the Reformation. Special attention to the development of the papacy.
- TH 246 **MODERN CHURCH HISTORY** (3) Period of the dissolution of Christendom as it experienced Reformation, rationalism and political revolution, from the sixteenth century to the end of the nineteenth century.
- TH 247 **MYSTICISM AND SCIENCE** (3) What is mysticism? What might be its relevance to contemporary life, both personal and social? The course will attempt to answer these questions by exploring the various expressions of mysticism in the major world religions against the background of modern science, especially psychology and physics.
- TH 249 **GOD IN EVOLUTION** (3) The possibilities offered by process theology for a contemporary interpretation of traditional Christian belief in the Trinity, Creation, Redemption, Church and Sacraments.
- TH 250 **INTRODUCTION TO SCRIPTURE** (3) Introduction to historical, literary, and religious development of both Old and New Testaments with emphasis on the use of the tools of scripture study (One section limited to majors and other interested and qualified students.)
- TH 253 **PSALMS AND WISDOM LITERATURE** (3) Study of the psalms: their literary composition and theological content; and of the writings of the Old Testament which have the perspective of wisdom, such as Job, Ecclesiastes, Sirach.
- TH 255 **OLD TESTAMENT PROPHETS** (3) A study of the writings of Israel's prophets with special attention given to the historical period, religious content, and uniqueness of each prophet.
- TH 261 **WRITINGS OF PAUL** (3) A close reading of the Pauline letters within their social and historical situation; the contribution of Paul towards the formation of revolutionary consciousness.
- TH 262 **THE COMMUNITY OF THE BELOVED DISCIPLE** (3) An analysis of the Gospel and Letters of John in light of the historical and theological developments of the Johannine community.
- TH 263 **THE PARABLES: A WORKSHOP** (3) What is a parable? Which ones are authentic? What are the sources for Jesus' parables? What image of Jesus emerges from this search? Can we still speak in parables today?
- TH 265 **GOSPEL OF MARK** (3) Analysis of the Gospel of Mark in light of its historical, literary, and theological context.
- TH 266 **GOSPEL OF MATTHEW** (3) Study of this Jewish-Christian Gospel as an alternative to Rabbinic Judaism. Emphasis on the pursuit of wisdom and justice.
- TH 272 **NEW TESTAMENT ETHICS** (3) Through a critical examination of selected New Testament texts this course attempts to answer the challenge: Can the NT still speak to the moral crises of today.
- TH 275 **BOOK OF REVELATION** (3) Comparison with other apocalyptic and political thinking of its time. Subsequent use in history of Church and culture (especially U.S.)

Theology

- TH 278 **GNOSTICISM AND EARLY CHRISTIANITY** (3) Origin, nature, and literature of Gnosticism in comparison with early Christianity. Readings in Gnostic and Christian literature. Prerequisite: introductory course in Scripture.
- TH 279 **CHRISTIAN ORIGINS: SOCIOLOGICAL PERSPECTIVES** (3) A critical assessment of recent sociological interpretations of early Christianity. Prerequisite: Introduction to Sociology and/or introductory course in Scripture.
- TH 280 **PSYCHOLOGY AND RELIGION** (3) Exploration of the self in relationship and in transformation, using a variety of psychological approaches to the religious dimensions.
- TH 293 **JESUS IN MODERN FICTION** (3) Modern fiction as it illuminates and is illuminated by the study of the Jesus of the gospels and of contemporary Christology.
- TH 295 **THE ATONING IMAGINATION** (3) Study of the healing aspect of the imagination, particularly in light of early Christian experience.
- TH 300 **RACE, RELIGION AND SOCIETY** (3) A look at the role of race in modern western religion and culture, with primary attention to African experience in the Americas.
- TH 301 **DIVORCE: A THEOLOGICAL STUDY** (3) An analysis of the practice and theory utilized in the Catholic Church in the past and a study of current issues regarding divorce and remarriage.
- TH 303 **CHRISTIAN ETHICS: METHODS AND QUESTIONS** (3) Introduction to the methods and central questions of Christian ethics. (Limited to majors and other interested and qualified students.)
- TH 304 **CHRISTIANITY AND MARXISM** (3) Comparison of some major themes in Christianity and in Marxism; history of Marxist-Christian dialogue in this century.
- TH 306 **LIBERATION THEOLOGY** (3) The origins and development of the theology of the liberation movements of women, Latin Americans, and U.S. and South African blacks.
- TH 310 **MARRIAGE AND THE FAMILY** (3) A practical overview of marriage in light of Church tradition and insights from contemporary studies. Team-taught with the interaction of psychologist, sociologist, and theologian. (SO 310, PS 310).
- TH 311 **FAITH AND JUSTICE** (3) Relationship between Christian faith and social justice viewed in both Christian tradition and recent thought and documents of the Church.
- TH 312 **CHRISTIAN MEDICAL ETHICS** (3) Evaluation of the options open within medicine — from structuring a health care policy which benefits all equally to deciding on humane ways of dying.
- TH 313 **CHRISTIAN SEXUAL ETHICS** (3) Ethical criteria Christians use in judging human sexuality from its origins throughout its development: Sex role socialization and common options in sexual behavior.
- TH 314 **CHRISTIAN BUSINESS ETHICS** (3) Major contemporary issues of economic concern.
- TH 315 **CONTEMPORARY ETHICAL ISSUES** (3) Current issues in light of Christian faith. See course description for specific issues to be studied in a particular semester.
- TH 317 **WAR AND PEACE** (3) Survey of Church teaching on war and peace, followed by analysis of contemporary social and religious movements toward peace and war. How are Christians called to peace?
- TH 321 **SIN AND GUILT** (3) Biblical concept of sin, contemporary ideas of sin and guilt. Is there any reason to keep such concepts as sin? Does anyone sin anymore?
- TH 326 **THE CHRISTIAN AT PRAYER** (3) Traditional and contemporary topics concerning the theory and practice of Christian prayer.

Theology

- TH 328 **CHRISTIAN WORSHIP** (3) Ritualization of the Christian experience in Word and Eucharist. Ritualization of Christian initiation, reconversion, marriage, ministry, illness, death, and burial. The arts in ritual.
- TH 330 **IGNATIAN SPIRITUALITY TODAY** (3) Study of Ignatius Loyola and his spiritual journey in historical context and as the foundation of Jesuit relevancy for reform today.
- TH 333 **HISTORY OF CHRISTIAN THOUGHT I** (3) History of Christian thought from the second to the sixth century, with special attention to interaction between Christianity and classical philosophy. Early Church Fathers, Origen, Trinitarian and Christological controversies, Augustine.
- TH 334 **HISTORY OF CHRISTIAN THOUGHT II** (3) History of Christian thought from sixth century to the eve of the Reformation. Mystical theology, rise of scholasticism, Anselm, Aquinas, Bonaventure.
- TH 335 **HISTORY OF CHRISTIAN THOUGHT III** (3) History of Christian thought from the Reformation to the middle of the eighteenth century. Christian Humanism, Luther, Calvin, Council of Trent, deism.
- TH 336 **HISTORY OF CHRISTIAN THOUGHT IV** (3) History of Christian thought from the middle of the eighteenth century to beginning of twentieth century, with special attention to the challenges of science and philosophy to religion. Schleiermacher, Hegel, Newman, theological liberalism, development of doctrine, "atheistic" critiques.
- TH 337 **RELIGIOUS EDUCATION PRACTICUM** (3) Supervised teaching of religion on the elementary or secondary levels.
- TH 338 **RELIGIOUS EDUCATION: THEORY AND PRACTICE** (3) A study of religious education as an important form of pastoral ministry in the contemporary Church. Religious education will be presented as a process involving a basic conversion experience, personal transformation, and life-long development toward the goal of mature adult faith.
- TH 339 **MORAL EDUCATION AND CHRISTIAN CONSCIENCE** (3) A consideration of the principal developments in moral catechesis since the Second Vatican Council (1962-65).
- TH 341 **CONTEMPORARY PROTESTANT THEOLOGY** (3) Study of major Protestant theologians of the twentieth century.
- TH 343 **DIALOGUE AMONG WORLD RELIGIONS** (3) The foundations for a greater ecumenism among all religions; how Christians can come to a more positive attitude towards other religions.
- TH 344 **FAR EASTERN RELIGIONS** (3) An attempt to understand and to enter into the experience behind the teachings and practices of the Eastern religions: Hinduism, Buddhism, Confucianism, Taoism, Zen.
- TH 345 **INTRODUCTION TO THE CHURCH FATHERS** (3) The Fathers of the first five centuries. The Church's defense against pagans and heretics. Confrontation with the Empire. Development of doctrine. (CL 345)
- TH 352 **JUDAISM: CUSTOMS, PRACTICES, BELIEFS** (3) A basic understanding of Judaism and its component parts. Brief overview of Jewish history and study of Jewish religious calendar of holidays and life-cycle experiences. (Sponsored by the Jewish Chautauqua Society.)
- TH 353 **THE HOLOCAUST** (3) The Holocaust in Europe during the Hitler period. Analysis of the causes and background of the destruction of European Jewry. (Sponsored by the Jewish Chautauqua Society.)
- TH 369 **THE RENAISSANCE** (3) The late medieval church and its social context: the transition from a feudal and agrarian society to one urban and secular. (HS 215).

- TH 370 **THE REFORMATION** (3) Protestant, Catholic, and "Anabaptist" attempts to revitalize a Christianity insufficiently Christian. (HS 216).
- TH 371 **BAROQUE CATHOLICISM** (3) Between Luther and Voltaire (1550-1789), Catholics faced a variety of challenges and opportunities. Among the controversies are: Galileo affair, rise of Jansenism, Chinese rites, suppression of the Jesuits. (HS 217).
- TH 372 **ENGLISH REFORMATION** (3) (HS 218).
- TH 373 **THE PAPACY** (3) A study of the development of this central institution of the Catholic Church from its basis in Scripture to its dominant influence in the High Middle Ages. (HS 219).
- TH 376 **AMERICAN CATHOLIC HISTORY** (3) The relationship between Roman Catholicism and the American ethos.
- TH 377 **THE CHURCH FROM THE FRENCH REVOLUTION TO THE REVOLUTION OF VATICAN II** (3) (HS 220).
- TH 388 **THEOLOGY & ECOLOGY: THE LIBERATION OF LIFE** (3) An exploration of the philosophical and theological issues underlying a sane approach to the protection of all life-forms within a finite world in which hard choices frequently have to be made. Strong emphasis on the processive and communitarian character of life on this earth.
- TH 390 **SENIOR SEMINAR** (3) Study of theological methodologies and issues. (Required of and limited to theology majors.)
- TH 394 **UNIVERSITY SCHOLARS' SEMINAR** (3)
- TH 395 **DIRECTED STUDY** Credit to be arranged.

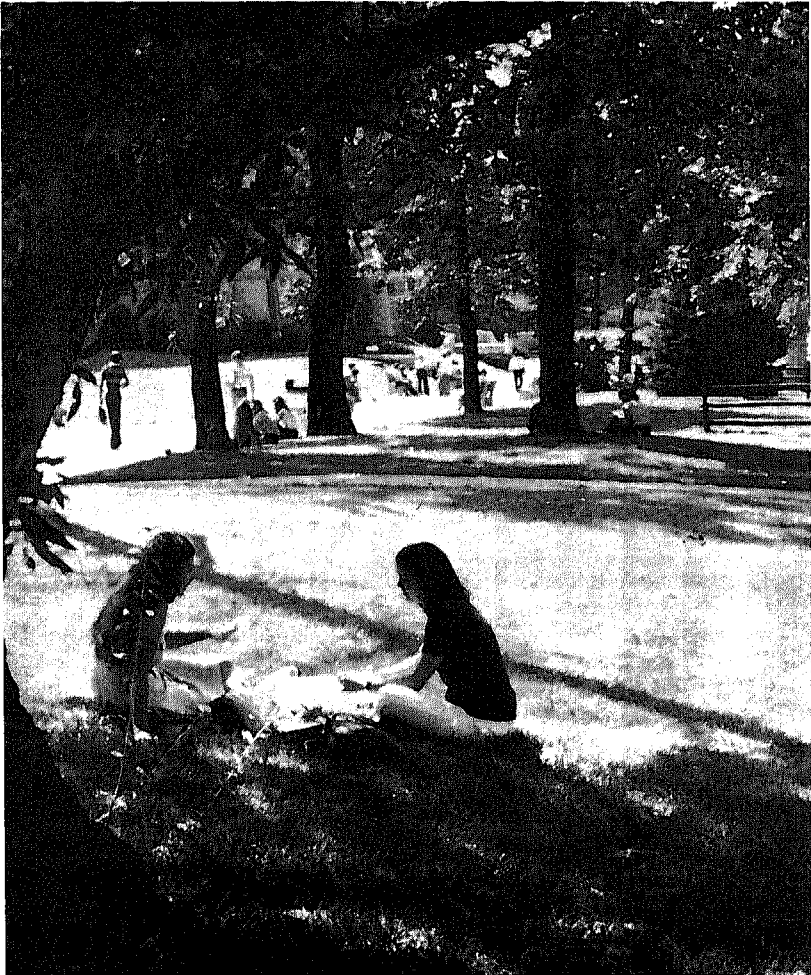
Graduate Courses

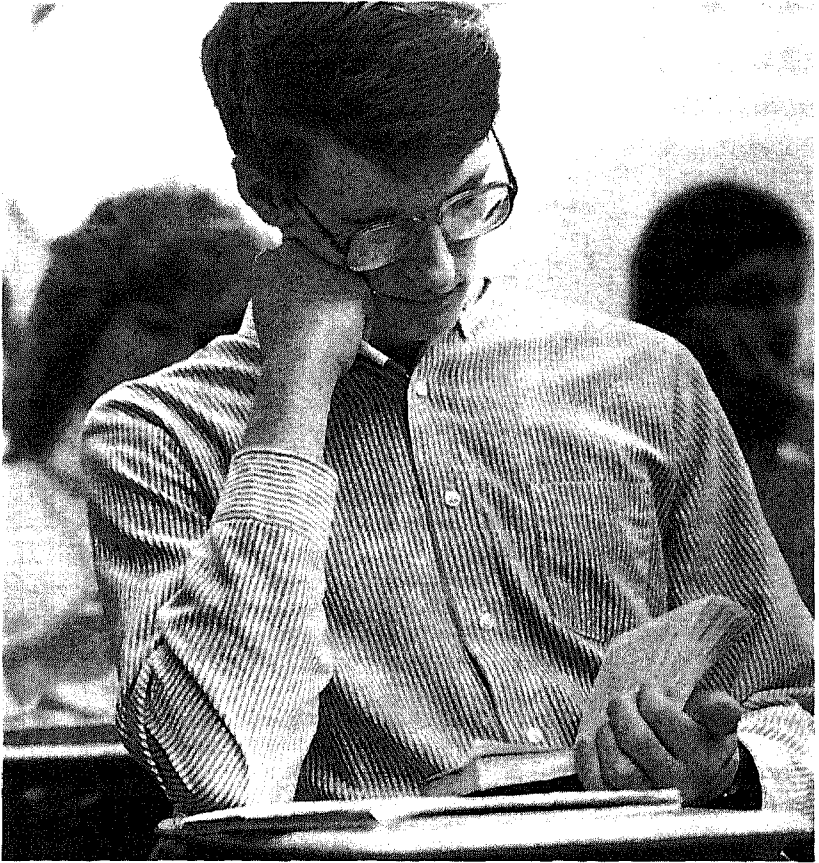
- TH 502 **CHRISTIAN TRADITION AND THE TASK OF UNDERSTANDING** (3) Enables the student to confront fundamental elements of the Christian tradition and to become aware of the need for a critical methodology. The approach/method of a particular thinker may be studied.
- TH 505 **GOSPEL OF MARK: THE DRAMA OF DISCIPLESHIP** (3) In-depth analysis of the Gospel of Mark in light of historical, literary, and theological context. Present-day dialogue with the Gospel's fundamental theological questions.
- TH 507 **STUDIES IN LUKE-ACTS** (3) Survey of historical and critical research into Luke's two writings, language and style of the author, theological premises. Contributions of literary, redaction, and source criticism.
- TH 511 **PAUL'S CONCEPT OF COMMUNITY** (3) A dialogue on three levels with Paul, with our own traditional understandings of community, and with our present communal experience. Course method will be that of presenting theses, statements or propositions which present a position or perspective for discussion and debate.
- TH 512 **NEW TESTAMENT FOUNDATIONS FOR A THEOLOGY OF THE LAITY** (3) Consideration of New Testament sources in light of the emerging presence of the laity.
- TH 515 **PROPHETIC FAITH IN ISAIAH** (3) A study of the Book of Isaiah with particular emphasis on the themes of covenant and faith. The writings of Isaiah and prophetic faith will be discussed in the light of their significance for our time.
- TH 517 **JEREMIAH: PROPHET OF A JUST SOCIETY** (3) A study of the prophet, his time and the religious background of his ministry and preaching. An attempt will be made to show the relevance of Jeremiah in today's world.
- TH 530 **CONTEMPORARY CHRISTOLOGIES** (3) A study of various systematic approaches to the mystery of Christ and specific Christological models.

Theology

- TH 531 **GOD: PROBLEM AND MYSTERY** (3) Basic themes of the theological treatise on God (existence of God, atheism, creation, the Trinity) discussed within the context of fundamental questions of life (anxiety, death, evil, hope, and fulfillment).
- TH 532 **GRACE AND SACRAMENTS** (3) Historical overview of the doctrine of grace combined with a brief history of the sacraments. Afterwards, a systematic explanation of grace and sacraments for the contemporary Christian.
- TH 533 **THE UNIQUENESS OF CHRIST** (3) The course will explore how Christians can affirm the uniqueness of Jesus in a world of newly experienced religious pluralism. The fact and challenge of tradition and contemporary theology will be studied in order to grasp how Christians can affirm both the uniqueness of Christ and the value of other ways.
- TH 538 **RELIGIOUS EDUCATION TODAY** (3) A study of the foundations of religious education: faith, religion, belief, theology, and education. In addition, an historical overview of the development of catechesis, with special emphasis on contemporary approaches and methods.
- TH 540 **MODERN CATHOLIC SOCIAL TEACHING** (3) Papal (and certain episcopal) social teaching since Léo XIII (1878). Includes employer-employee relations, poverty, democracy, socialism, Church-State relations, economics, human rights of all kinds.
- TH 545 **MORAL THEOLOGY SINCE VATICAN II** (3) Recent developments in Christian ethics from Richard McCormick's Notes on Moral Theology. Topics: methods in moral decision-making, conscience and authority, sexuality, human rights, divorce, business, bioethics, war and the arms race.
- TH 549 **THEOLOGICAL ETHICS** (3) Key concepts of Christian ethics: revelation, the human person, conscience, law, freedom, sin, and authority.
- TH 553 **PSALMS AND WISDOM LITERATURE** (3) In-depth study of the prayers used by Israel in public and private worship; and of the Wisdom literature of Israel, with emphasis on Job, Proverbs, Ecclesiastes, and Sirach.
- TH 554 **PSYCHOLOGY OF RELIGIOUS EXPERIENCE** (3) A study of the implications of psycho-social theories of human development for an understanding of religious experience.
- TH 555 **PSYCHOLOGY OF RELIGION** (3) An exploration of self as sacred process of transformation and relation, using a variety of psychologies (especially Jung-based), religious and mythic sources, and our dreams, fantasies and experiences.
- TH 559 **CHRISTIAN SPIRITUALITY: PAST AND PRESENT** (3) History of Christian spirituality and themes of contemporary spirituality.
- TH 563 **HISTORY AS A THEOLOGICAL PROBLEM** (3) Examination of the principal figures and movements, from the 18th to the 20th century, that demonstrated the challenge of history and modern historical consciousness for theology. For example, Kant and Hegel on the relation of reason, history, and revelation; J.H. Newman on the historical development of doctrine; D.F. Strauss on the historical criticism of Scripture.
- TH 564 **KEY THEMES IN THE HISTORY OF CHRISTIAN THOUGHT** (3) Examination of how significant theologians in different centuries have dealt with major issues. Such as: the relation of grace, nature, and free will; the role of reason and use of Scripture in theology; the knowledge of God. Representative figures include Origen, Augustine, Anselm, Aquinas, Luther, and Calvin.
- TH 565 **MYSTICISM EAST-WEST** (3) The course will explore the significance of mysticism for the Church and the modern world by studying the writings of Eastern and Western mystics and by relating mystical experience to the findings of modern science (especially psychology and physics).

- TH 570 **PROCESS THEOLOGY** (3) Evaluation of the use that contemporary theologians are making of process philosophy to reinterpret Christian tradition.
- TH 591 **THEOLOGY OF KARL RAHNER** (3) Analysis and discussion of key concepts in Rahner's thought: The human person, God, grace, Jesus Christ, Church and the Sacraments.
- TH 606 **LIBERATION THEOLOGY** (3) Examination of the theological reflection on the new spirituality arising in Latin America. Includes consideration of basic Christian communities, scripture as method of conscientization, and persecution of the witnessing Church.
- TH 666 **BOOK OF REVELATION** (3) Comparison with other apocalyptic and political thinking of its time. Subsequent use in history of Church and culture.
- TH 695 **SPECIAL STUDY** (3).
- TH 699 **MASTER'S THESIS** (6).





DEPARTMENTS

College of Business Administration

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

Accounting (AC)

Staff: MR. VANDERBECK, *chair*; MS ALLEN, DR. BAYOU, MR. FIORELLI, MR. REED, MR. SCHNEIDER, MR. R. SCHUTZMAN, MR. SMITH, DR. WALKER

Assisted by: MS. BRYANT, MR. GRIFFIN, MR. KAMPHAUS, MR. MCTIGUE, MR. J. SCHUTZMAN

Lower Division Courses

- AC 100 **PRINCIPLES OF ACCOUNTING I** (3) Basic structure of accounting, accounting systems, accounting principles, and accounting for partnerships.
- AC 101 **PRINCIPLES OF ACCOUNTING II** (3) Corporate accounting; cash flow, funds flow, and statement analysis; cost and managerial accounting control; decision-making processes including cost and revenue concepts, managerial reports, and federal income taxes. Prerequisite: AC 100.

Upper Division Courses

- AC 200 **INTERMEDIATE ACCOUNTING I** (3) A broad background of accounting theory and related problems applicable to business enterprises. Prerequisite: AC 101.
- AC 201 **INTERMEDIATE ACCOUNTING II** (3) A continuation of AC 200, which is also a prerequisite.
- AC 220 **COST ACCOUNTING I** (3) A study of cost concepts and cost systems, budgeting, variance analysis, and performance reports. Prerequisite: AC 101.
- AC 221 **COST ACCOUNTING II** (3) Quantitative and behavioral techniques in planning and controlling the performance of managers and their responsibility centers. Prerequisite: AC 220.
- AC 230 **TAXATION OF INDIVIDUALS** (3) Study of taxation in general with special emphasis on the Federal Revenue System and the individual taxpayer.
- AC 231 **TAXATION OF PENSIONS, PROFIT SHARING PLANS, CAPITAL GAINS, ETC.** (3) Tax planning as it relates to the special problems of individuals, corporations, and partnerships. Prerequisite: AC 230.
- AC 297 **TUTORIAL COURSE** (2-3) Special reading and study for advanced students.
- AC 310 **ADVANCED ACCOUNTING** (3) Specialized areas of accounting including business combinations and consolidated financial statements, partnerships, estates and trusts, and fund accounting. Prerequisite: AC 201.
- AC 320 **AUDITING** (3) An overview of the contemporary and traditional approaches to auditing including the evaluation of internal control through transaction cycle analysis, the balance sheet approach to verification of account balances, the design of audit procedures, the interpretation of audit results, and the professional responsibilities of the independent auditor. Prerequisites: AC 340, 201; or permission of instructor.

Business Administration

- AC 330 **CPA REVIEW – THEORY & PRACTICE** (3) Preparation of candidates for the Theory and Practice sections of the CPA Exam.
- AC 335 **ADVANCED BUSINESS LAW FOR ACCOUNTANTS** (3) Preparation of candidates for the business law section of the CPA exam. Prerequisite: BA 280.
- AC 340 **ACCOUNTING INFORMATION SYSTEMS** (3) An introduction to the design, development, and implementation of manual and computer based accounting information systems, with an internal control emphasis. Prerequisites: IS 100, AC 201, AC 220.

For graduate courses in accounting see Business Administration: Graduate Courses.

For the MBA degree with a concentration in accounting see Graduate Programs: the Master of Business Administration.

Business Administration (BA)

The following are general business service courses in Business Administration. Professors are assigned to these courses by the other departments in the College of Business Administration.

- BA 245 **INTERNATIONAL TRADE & BUSINESS ENVIRONMENT** (3) An analysis of International Trade and Finance; the behavior of the multinational enterprise; the impact of global economy on traditional business strategies.
- BA 250 **MONEY AND BANKING** (3) Principles of money, credit and depository institutions. Analysis of monetary policy, international monetary conditions, and the role of the Federal Reserve in money management. Prerequisites: EC 100, 101.
- BA 270 **BUSINESS STATISTICS** (3) Descriptive statistics, involves a discussion of frequency distributions, several exploratory data analysis techniques and measures of central tendency, dispersion and skewness. Classical statistical inference involves a discussion of probability and probability distributions, sampling distributions, estimation, test of hypotheses, simple linear regression and correlation analysis, and an introduction to time series analysis. Non-parametric techniques involves a discussion of contingency tables and the Phi Coefficient. Prerequisite: MT 150.
- BA 271 **ADVANCED BUSINESS STATISTICS** (3) Chi square. Payoff tables. The value of Bayesian inference. Correlations. Regression. Time series analysis. Forecasting and design of sample surveys. Prerequisite: BA 270 or equivalent.
- BA 280 **LEGAL ENVIRONMENT** (3) To give the student a background in the legal environment of business. Topics include: Business entities, employment discrimination, consumer protection, and products liability.
- BA 285 **GOVERNMENT AND BUSINESS** (3) Analyzing how the corporate executive can operate effectively under increasing government regulations. Antitrust. EPA FTC Discrimination. Prerequisite: BA 280.
- BA 331 **APPLIED QUANTITATIVE METHODS FOR BUSINESS** (3) Basic management science techniques: linear programming, transportation model, decision theory, PERT and other selected models. Prerequisites: MT 150, BA 270.
- BA 399 **BUSINESS POLICY** (3) Opportunity to integrate core and concentration backgrounds with other students through the use of selected cases. Prerequisites: ALL freshman and sophomore level core courses.

Graduate Courses

Students selecting courses for the degree of Master of Business Administration must include the six core courses—BA 511, 513, 514, 515, 516, 519—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 policy course dealing with practical problems.

- BA 501 **ECONOMIC ANALYSIS** (4) An accelerated course in the principles of economics for MBA students without previous course work in economics.

Business Administration

- BA 503 **FINANCIAL ACCOUNTING** (3) Accounting principles, practices, and systems relating to proprietorships, partnerships, and corporations.
- BA 504 **MANAGEMENT OPERATIONS** (3) Principles of management concepts, and organizational behavior concepts.
- BA 505 **MARKETING CONCEPTS** (3) Principles of marketing; concepts, functions, institutions, and policies.
- BA 506 **MANAGERIAL STATISTICS** (3) Descriptive statistics, involves a discussion of frequency distributions, several exploratory data analysis techniques and measures of central tendency, dispersion and skewness. Classical statistical inference involves a discussion of probability and probability distributions, sampling distributions, estimation, test of hypotheses, simple linear regression and correlation analysis, and an introduction to time series analysis. Non-parametric techniques involves a discussion of contingency tables and the Phi Coefficient. Prerequisite: College Algebra.
- BA 507 **CORPORATE FINANCE** (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: BA 503 or its equivalent.
- BA 508 **MANAGERIAL COMPUTER APPLICATIONS** (3) Hardware, software, machine operations, number systems, terminology. Management computer tools. Computing facilities at Xavier. Use of computer tools such as editors, spreadsheets, word processing, fourth generation languages. Student projects.
- BA 509 **ELEMENTS OF CALCULUS** (1) Introduction to calculus and classical techniques. Prerequisite: College algebra.
- BA 510 **INTRODUCTION TO MANAGEMENT SCIENCES** (2) Techniques such as linear programming, transportation, inventory, queuing, PERT/CPM, and simulation, and production techniques. Corequisite: BA 506, 508, 509.
- BA 511 **ECONOMIC ENVIRONMENT** (3) Functions of the economic system, national income, business fluctuations, forecasting, government economics. Keynesian economic analysis, monetary and fiscal policies. Prerequisite: BA 501 or its equivalent.
- BA 513 **MANAGERIAL ACCOUNTING** (3) Management's use of accounting data through the preparation, analysis, and interpretation of accounting reports and statements. Prerequisites: BA 503, 507 or their equivalents. (Waived for undergraduate accounting majors.)
- BA 514 **ORGANIZATIONAL BEHAVIOR** (3) Application of models and theories in the areas of organizational behavior, interpersonal communication, and organizational theory and design. Prerequisite: BA 504 or equivalent.
- BA 515 **MARKETING STRATEGY** (3) The strategic planning process as it applies to marketing management. Current literature and techniques. Prerequisites: BA 503, 505, 507, or their equivalents.
- BA 516 **MANAGERIAL FINANCE** (3) In-depth study of corporate finance. Topics include capital budgeting, capital structure, financial analysis, and related corporate theory. Lectures, cases, readings. Prerequisites: BA 503, 506, 507.
- BA 519 **CASES AND TECHNIQUES IN MANAGEMENT SCIENCE** (3) Advanced techniques such as integer and dynamic programming. Further discussion of simulation. Case method used. Cases will include production orientation. Prerequisite: BA 510.
- BA 520 **TAXES AND FINANCIAL DECISIONS** (3) Overview of the important tax consequences of financial decisions, with emphasis on the layperson's ability to recognize the major symptoms of possible tax problems affecting business. Prerequisites: BA 513, BA 516.
- BA 521 **OPTIONS AND FUTURES MARKETS** (3) Options and futures strategies, the valuation of options and futures, and the theory of hedging. Prerequisite: BA 516.

Business Administration

- BA 522 **ENTREPRENEURIAL FINANCE** (3) Evaluation of cash flow issues of special concern to new and small business and methods of determining a firm's value. Analysis of new investments, financing, and operating earnings. Prerequisites: BA 513, BA 516.
- BA 525 **MULTINATIONAL MANAGEMENT** (3) Planning international trade. Sources of information. Structuring multinational firms. Personnel development, especially communication/motivation.
- BA 526 **MULTINATIONAL MARKETING** (3) Product decisions, pricing decisions, and channel decisions in the world market environment. Stresses cultural differences.
- BA 527 **MULTINATIONAL TRADE AND FINANCE** (3) Growth and direction of trade. Internationalization of businesses. Role of governments. Mechanics of financing foreign trade and investment. Prerequisite: BA 507 (EC 527).
- BA 528 **MULTINATIONAL ACCOUNTING** (3) Comparative accounting practices of different countries; financial reporting disclosure and foreign financial statement analysis; foreign currency translation and accounting for inflation; and the international dimensions of auditing, managerial accounting, transfer pricing and taxation. Prerequisites: BA 503 and BA 513 or equivalents.
- BA 530 **MANAGERIAL ECONOMICS** (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. Topics include demand analysis, forecasting, cost analysis, and pricing. (EC 530).
- BA 532 **BUSINESS FORECASTING** (3) Development and application of statistical techniques used in short-term forecasting. Prerequisites: BA 502, BA 507. (EC 532).
- BA 535 **BUSINESS AND PUBLIC POLICY** (3) Government and business in the United States compared with other countries. Practical problems. Trends in regulation. Decision-making as caused, affected, and limited by regulation. (EC 535).
- BA 539 **SEMINAR: CURRENT ECONOMIC PROBLEMS** (3)
- BA 546 **TAXATION OF PARTNERSHIPS AND CORPORATIONS** (3) Topics include formation of corporations and partnerships, S corporations, personal holding companies, etc.
- BA 547 **TAX RESEARCH AND PRACTICE** (3) Tax research concerning regulations governing CPAs, attorneys, statutes of limitations, rules of evidence, etc. Prerequisite: AC 230.
- BA 548 **TAXATION OF GIFTS, ESTATES, AND TRUSTS** (3) Tax laws of the Federal Gift Tax, Federal Death Tax, valuation of gifts, estates and trusts, family tax planning, and income planning of trusts and estates. Prerequisite: AC 230.
- BA 549 **TAXATION OF NON-PROFIT ORGANIZATIONS** (3) Tax problems of churches, political action groups, and numerous other not-for-profit organizations. Prerequisite: AC 230.
- BA 550 **INTERNATIONAL TAXATION** (3) A broad analysis of the taxation of income by foreign countries. Prerequisite: AC 230.
- BA 551 **MONEY AND CAPITAL MARKETS** (3) Financial institutions and markets. The theory of interest rate determination, monetary policy, and fiscal policy. Prerequisite: BA 507.
- BA 552 **INVESTMENT MANAGEMENT** (3) Evaluation, selection and management of securities and portfolios. Includes a study of theory using analytical approaches. Prerequisite: BA 507
- BA 553 **PROBLEMS AND CASES IN FINANCE** (3) Case studies of problems involving financial analysis, capital budgeting, capital structure, and related areas. Prerequisites: BA 503, 506, 507, 516.

Business Administration

- BA 554 **PERSONAL FINANCIAL PLANNING (3)** Topics include income tax planning, creative financing, insurance, employee benefits, real estate, securities investments, and estate planning. Prerequisites: BA 503, 507.
- BA 555 **CONTROLLERSHIP (3)** A study utilizing the case approach of management planning and control systems and the decision making processes in different organizational structures. Prerequisites: BA 513, 514, 516.
- BA 556 **CONTEMPORARY PROBLEMS IN ACCOUNTING AND FINANCE (3)** A timely and relevant coverage of current topics in the areas of accounting and finance. Prerequisites: BA 513, BA 516.
- BA 557 **FINANCIAL PLANNING AND STRATEGY (3)** Explores the major aspects of investment, financing, and distribution strategies in light of the most recent advances in modern financial theory and research. Prerequisites: BA 513, 516.
- BA 558 **ACCOUNTING INFORMATION SYSTEMS MANAGEMENT AND CONTROL (3)** A course designed to provide in depth coverage of developments in electronic data processing of accounting information and techniques of planning, implementing, executing and evaluating accounting information systems. Emphasis on internal control and cost/benefit analysis provide the framework for exploring computer techniques. Prerequisites: BA 503, 508, 513 or equivalents.
- BA 559 **TAXATION OF PARTNERSHIPS – ADVANCED (3)** Topics including liquidations, reorganizations, redemptions, etc. Prerequisite: BA 546.
- BA 561 **MARKETING MANAGEMENT (3)** Application of marketing concepts and theory to actual situations via case method. Individual reports and presentations. Prerequisite: BA 515 or permission of instructor.
- BA 562 **MARKETING RESEARCH (3)** Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. Prerequisite: BA 515 or permission of instructor.
- BA 563 **INDUSTRIAL MARKETING (3)** Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. Prerequisite: BA 515 or permission of instructor.
- BA 564 **CONSUMER BEHAVIOR THEORY (3)** Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. Prerequisite: BA 515 or permission of instructor.
- BA 565 **ADVERTISING (3)** The role of advertising in the marketing process. The advertising campaign, its creative and media components. The decision processes. Case method. Prerequisite: BA 515 or permission of instructor.
- BA 566 **MARKETING AND THE LAW (3)** Statutory and case law as each affects marketing decision-making. Sales contracts, warranties, transfer of title, remedies under U.C.C.
- BA 567 **RETAIL STRATEGIES (3)** Examination of the conceptual and operational considerations surrounding the formulation of strategic plans for institutions in the retail sector. Prerequisite: BA 515 or permission of instructor.
- BA 568 **NEW PRODUCT PLANNING AND DEVELOPMENT (3)** The entire process of new product development from idea generation to successful commercialization is examined and evaluated. Special emphasis is placed upon state-of-the-art forecasting techniques. Prerequisite: BA 515 or permission of instructor.
- BA 569 **MARKETING MODELS (3)** Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: BA 515 or permission of instructor.
- BA 570 **SEMINAR: CONTEMPORARY MARKETING ISSUES (3)** Current developments in marketing as related to social issues. Consumerism, ecology, social responsibility, ethical issues, and governmental roles. Prerequisite: BA 515 or permission of instructor.

Business Administration

- BA 600 **EXECUTIVE PRACTICES** (3) Comparative issues in Japanese, European and U.S. Executive Management. Prerequisite: BA 514.
- BA 601 **MANAGEMENT PLANNING** (3) The planning function of management. Intermediate and long-range planning. Prerequisite: BA 514.
- BA 602 **MANAGEMENT INFORMATION SYSTEMS** (3) Analysis and design of information systems for management with emphasis on current MIS environments—on-line real-time systems, distributed data processing system, and decision support systems. A student project is required. Prerequisite: BA 508.
- BA 603 **MATERIALS MANAGEMENT** (3) The materials function in an industrial firm as an integrated activity. Inventory, purchasing, and traffic operations, with a discussion of objectives and measurements. Prerequisite: BA 514.
- BA 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, 510.
- BA 607 **SEMINAR: APPLIED INDUSTRIAL MANAGEMENT TECHNIQUES** (3) Interdisciplinary. Solution of industrial management problems. Prerequisite: BA 603.
- BA 608 **DATA BASE DESIGN** (3) Hierarchical, network and relational data base design. Data base management and query languages as utilized in business information systems. Prerequisites: BA 508.
- BA 609 **MANAGERIAL ASPECTS OF MIS** (3) Planning and evaluating new management information systems (MIS), organizing aspects of MIS departments, motivation of MIS personnel, and controlling day-by-day MIS activities. A student project is required. Prerequisite: BA 602.
- BA 610 **DISPUTE RESOLUTION AND ARBITRATION** (3) Bridges the relationship between the labor-management contract and its implementation in the industrial setting. Integrates substantive materials with cases; contribute to fact-finding and problem solving skills.
- BA 612 **SEMINAR: COLLECTIVE BARGAINING** (3) An examination of contract negotiations as a tool for handling problems and issues in labor-management relations. Case-work involved.
- BA 613 **PERSONNEL AND THE LAW** (3) Analysis of current law dealing with labor-management relations, working conditions and discrimination.
- BA 614 **MANAGEMENT OF THE PERSONNEL FUNCTION** (3) Selection, development, HR planning, compensation, labor relations and employee relations will be covered in a case oriented approach.
- BA 615 **PERSONNEL SELECTION AND PLACEMENT** (3) Principles underlying sound practices in personnel selection and placement. Job analysis, development and use of selection procedures, fair employment practices. Prerequisite: BA 514.
- BA 616 **MANAGEMENT OF STRESS** (3) Causes of stress are studied in a variety of environments and solutions to manage stress are developed. Prerequisite: BA 514.
- BA 617 **PERSONNEL TRAINING AND DEVELOPMENT** (3) An examination of the field of training and developing the work force as it occurs in industry and government.
- BA 618 **CURRENT MANPOWER ISSUES** (3) Case studies in human resources policy in areas such as structural unemployment, job training, occupational safety and health, equal employment opportunities, social security, and welfare.
- BA 619 **COMPENSATION ISSUES** (3) An examination of contemporary problems and issues involved in programs for compensating employees.

Business Administration

- BA 620 **QUANTITATIVE DECISION-MAKING** (3) Strategies of decision-making, cost of information, revision of decisions, decision trees, theory of utility, and evaluation of competing alternatives. Prerequisite: BA 510.
- BA 621 **SIMULATION FOR BUSINESS ANALYSIS** (3) Concepts for the manager. Planning computer simulation of queuing and scheduling problems. Monte Carlo simulation. Prerequisite: BA 510.
- BA 622 **OPTIMIZATION I: LINEAR AND INTEGER PROGRAMMING** (3) Topics covered include the simplex and dual simplex algorithms, duality, sensitivity analysis, and integer programming. Prerequisite: BA 510.
- BA 623 **OPTIMIZATION II: NON-LINEAR AND DYNAMIC PROGRAMMING** (3) Topics covered include constrained and unconstrained optimization techniques. Kuhn-Tucker conditions, Quadratic Programming, discrete and continuous dynamic programming. Applications to business problems will be emphasized. Prerequisite: BA 622.
- BA 625 **APPLIED SAMPLING IN BUSINESS** (3) Phases involved in survey research. Student research project. Prerequisite: BA 510. (Taught when demand is sufficient.)
- BA 626 **APPLIED STATISTICAL ANALYSIS** (3) A continuation of BA 270. This course emphasizes advanced statistical techniques which include multiple regression analysis, further topics in Analysis of Variance, forecasting and time series techniques, additional non-parametric techniques, Bayesian estimation, and further topics in statistical and quality control. Prerequisite: BA 506.
- BA 629 **SEMINAR IN QUANTITATIVE METHODS: CURRENT TRENDS IN MANAGEMENT SCIENCE** (3) A seminar that focuses on current quantitative methods; topics of a theoretical and a practical nature. Prerequisite: BA 510.
- BA 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS** (3) The role of motivation in performance within organizations. Various concepts of motivation, leadership and group interaction are studied, with emphasis on research findings. Prerequisite: BA 514 (ED 644, PS 644).
- BA 645 **HUMANISTIC MANAGEMENT** (3) Transactional Analysis, Gestalt Therapy, and Neurolinguistic Programming form the basis of this communications competency course. Requires group participation, reading summaries, and journal-keeping. Prerequisite: BA 514 or permission of instructor.
- BA 648 **DATA COMMUNICATIONS AND NETWORKS** (3) Digital transmission, Software, Data Bases, Error Control, Data Link Control, Network Architecture, LAN, Distributed Systems, and Network Design Consideration. Prerequisite: BA 508.
- BA 649 **SMALL COMPUTERS FOR BUSINESS** (3) Microprocessor architecture, 16/32 bit systems, peripherals, operating systems, application software with emphasis on Unix operating system and the C programming language. Prerequisite: BA 508.
- BA 651 **DECISION SUPPORT SYSTEMS** (3) Emphasis on user computer interaction in a structured or a semi-structured environment where the user has complete control throughout the problem-solving process. A student project is required. Prerequisite: BA 602.
- BA 652 **COMPUTER GRAPHICS FOR MANAGEMENT** (3) New trends and concepts in Computer Graphics for management information systems. Hardware, software. Student Project. Prerequisites: BA 602 and programming and analysis experience.
- BA 655 **TOPICS IN MANAGEMENT INFORMATION SYSTEMS** (3) New trends and concepts in MIS not covered in other courses are presented. Prerequisite: BA 602.
- BA 692 **BUSINESS ORGANIZATION AND THE LAW** (3) The partnership and the corporation. Jurisprudential problems. Law and managers. Limits of discretion. Duties and responsibilities of managers. Prerequisite: BA 514.

Economics and Industrial Relations

- BA 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department.
- BA 696 **SMALL BUSINESS CONSULTING** (3) Student teams serve as consultants to small business enterprises. Site visitation, analysis of problems, and recommended solutions. Prerequisites: BA 511, 513, 514, 515, 516 and 519.
- BA 697 **MANAGERIAL COMMUNICATIONS** (3) Fundamentals of executive written and oral communication skills. Prerequisite: BA 514.
- BA 698 **ENTREPRENEURSHIP** (3) New ventures. Search, screening, evaluation, negotiation, and financing to initiate or purchase a company. Prerequisites: BA 511, 513, 514, 515, 516 and 519. For management, marketing, finance, business economics or entrepreneurial studies concentrations.
- BA 699 **BUSINESS POLICY AND STRATEGY** (3) Integration of the content of all core courses through the analysis of cases in business production and service industries. Prerequisites: BA 511, 513, 514, 515, 516 and 519.

Economics (EC) and Industrial Relations (IR)

Staff: DR. KUZINA, *chair*; MS. BERTAUX, DR. H. BRYANT, DR. COBB, DR. DONNELLY, DR. HAILSTONES, DR. J. HAYES, DR. MARMO, DR. MASTRIANNA, DR. RANKIN, DR. WEINBERG, DR. ZIMMERMAN

Assisted by: MR. BIAS, DR. DREESE, DR. HIBNER, DR. THALHEIMER

Economics (EC)

Lower Division Courses

- EC 100 **MICROECONOMIC PRINCIPLES** (3) Principles governing the efficient allocation of the nation's scarce resources. Economic behavior of consumers, producers, resource owners, and international markets.
- EC 101 **MACROECONOMIC PRINCIPLES** (3) Economic activity of the economy as a whole. The role of public policy in relation to issues of full employment, price stability, economic growth, and government finance. Prerequisite: EC 100.

Upper Division Courses

- EC 200 **MICROECONOMIC ANALYSIS** (3) An in depth study of consumer behavior, production, costs, the firm, market structure, the factor market, and general equilibrium analysis. Prerequisite: EC 100.
- EC 201 **MACROECONOMIC ANALYSIS** (3) Theoretical foundations of understanding GNP, inflation, unemployment, and economic growth. Controversies in modern macro theory. Prerequisites: EC 100, 101.
- EC 202 **HISTORY OF ECONOMIC THOUGHT** (3) Ideas and theories of major contributors to economic thought including Smith, Mill, Marx, and Keynes. Primary sources will be used. Prerequisites: EC 100, 101.
- EC 220 **COMPARATIVE ECONOMIC SYSTEMS** (3) Study of systemic properties of alternative capitalist, socialist, traditional, and utopian economics. Prerequisites: EC 100, 101.
- EC 235 **ENERGY ECONOMICS** (3) The relationship of energy to economic performance. Analysis of market conditions in energy industries. Government policy and international aspects in energy markets. Prerequisites: EC 100, 101.
- EC 244 **ECONOMICS OF INTERNATIONAL RELATIONS** (3) Course in international economics for non-economic majors. Prerequisites: EC 100, 101.

Economics and Industrial Relations

- EC 245 **INTERNATIONAL TRADE AND BUSINESS ENVIRONMENT** (3) An analysis of International Trade and Finance; the behavior of the multinational enterprise; the impact of global economy on traditional business strategies. Prerequisites: EC 100, 101. (BA 245).
- EC 250 **MONEY AND BANKING** (3) Principles of money, credit and depository institutions. Analysis of monetary policy, international monetary conditions, and the role of the Federal Reserve in money management. Prerequisite: EC 100, 101.
- EC 255 **UNITED STATES ECONOMIC HISTORY** (3) Economic evolution of the U.S. from colonial times to the present. Prerequisites: EC 100, 101.
- EC 256 **EUROPEAN ECONOMIC HISTORY** (3) Economic evolution of Europe from antiquity to modern market and planned economics. Prerequisites: EC 100, 101.
- EC 260 **ECONOMICS OF DEVELOPING COUNTRIES** (3) Analysis of the main problems of developing countries, methods of generating growth and development, and consideration of the international distribution of wealth. Prerequisites: EC 100, 101.
- EC 265 **CURRENT ECONOMIC PROBLEMS** (3) Current problems including the value of the U.S. dollar, social security, government regulation, and health care. Prerequisites: EC 100, 101.
- EC 270 **URBAN ECONOMICS** (3) Analysis of issues related to urban land use, housing markets, city size, and topics in state and local finance. Prerequisites: EC 100, 101.
- EC 322 **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 200 or 201, MT 146 or 156 or BA 270.
- EC 323 **INTRODUCTION TO MATHEMATICAL ECONOMICS** (3) Synthesis of mathematical techniques and economic theory. A mathematical review of economic models, static equilibrium, comparative statics, optimization, dynamic analysis, and mathematical programming. Prerequisites: EC 200, 201, MT 150 or 170.
- EC 325 **INDUSTRIAL ORGANIZATION** (3) Basic conditions, market structures, conduct and performance of American industry. Public policy related to the problems of monopoly and business conduct. Prerequisite: EC 200.
- EC 335 **PUBLIC FINANCE** (3) Role of government in the economy and an analysis of the principles of government expenditure and taxation. Prerequisite: EC 200.
- EC 345 **INTERNATIONAL ECONOMICS** (3) Basis for trade between nations. Barriers to trade. Balance of payments. Exchange rate determination. Monetary and fiscal policies in an open economy. Prerequisites: EC 200, 201.
- EC 370 **LABOR ECONOMICS** (3) Analysis of labor market behavior. Issues of compensation, human capital investment, unionization, discrimination, and the influence of the labor market on the macro economy. Prerequisites: EC 200, 201.
- EC 377 **MANAGERIAL ECONOMICS** (3) Applied microeconomic analysis for decision-making within the business firm. Emphasis on forecasting, demand and cost estimation, pricing techniques, project and risk evaluation. Prerequisites: EC 200, MT 150, and BA 270 or MT 146 or 156
- EC 380 **ADVANCED MACROECONOMICS** (3) Detailed study of varying topics in macroeconomic analysis. Prerequisite: EC 201.
- EC 395 **SEMINAR: ECONOMICS** (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: EC 200, 201.
- EC 397 **TUTORIAL COURSE** (2-3) Special reading and study for advanced students.

Economics and Industrial Relations

Graduate Courses

- EC 527 **MULTINATIONAL TRADE AND FINANCE** (3) Growth and direction of trade. Internationalization of businesses. Role of governments. Mechanics of financing foreign trade and investment. (BA 527).
- EC 530 **MANAGERIAL ECONOMICS** (3) Economic analysis as applied to practical business operation. Tools of economic analysis, types of economic competition, and their effect on individual firms and industries. Topics include demand analysis, forecasting, cost analysis, and pricing. (BA 530).
- EC 532 **BUSINESS FORECASTING** (3) Development and application of statistical techniques used in short-term forecasting. Prerequisites: BA 502, 507 (BA 532)
- EC 535 **BUSINESS AND PUBLIC POLICY** (3) Government and business in the United States Practical problems. Trends in regulation. Decision-making as caused, affected, and limited by regulation. (BA 535)
- EC 612 **SEMINAR: COLLECTIVE BARGAINING** (3) An examination of contract negotiations as a tool for handling problems and issues in labor-management relations. Case work involved. Prerequisite: BA 514. (BA 612).

Industrial Relations (IR)

Upper Division Courses

- IR 210 **HUMAN RESOURCES** (3) A survey of issues involved in the reality of people at work; topics involve labor force, employment and unemployment, compensation, labor unions, labor law, and collective bargaining. Prerequisite: EC 100.
- IR 300 **LABOR RELATIONS** (3) Evaluation of collective bargaining as a method for dealing with issues and problems involved in union-management relations. Focus on relationships and contract negotiations. Mock negotiation used.
- IR 305 **LABOR DISPUTE SETTLEMENTS** (3) Analysis of the settlement of disputes in unionized business; emphasis on contract administration and on the arbitration process. Casework.
- IR 310 **CURRENT LABOR PROBLEMS** (3) Analytical framework for examining labor problems. Application to important problems facing labor markets today.
- IR 311 **HISTORY OF THE LABOR MOVEMENT** (3) The development of various labor organizations in the U.S. and their relationship with management, from the Colonial period to the present.
- IR 313 **PERSONNEL AND LABOR LAW** (3) Analysis of the law governing the relationship between workers and their employer; emphasis on laws treating labor-management relations, working conditions, and discrimination.
- IR 317 **LABOR UNIONS** (3) A critical analysis of the structure and role of labor unions in the American economic system.
- IR 320 **PERSONNEL ADMINISTRATION** (3) Management of human resources covering a wide variety of topics including selection, training, development and motivation. Prerequisite: MG 200.
- IR 321 **INDUSTRIAL PSYCHOLOGY** (3) Application of psychological principles and procedures to a variety of organizations. Research, measurement and human behavior are emphasized.
- IR 340 **MANPOWER PROGRAMS AND POLICIES** (3) Analysis of human resource programs and policies in areas such as full employment, job training, income maintenance, employee health and safety, and equal employment opportunity.

Finance

- IR 345 **COMPENSATION THEORY AND PRACTICE** (3) An examination of the logic and practices involved in programs for compensating employees.
- IR 395 **CASES AND PROBLEMS IN INDUSTRIAL RELATIONS** (3) Case studies in selected personnel problems with emphasis on the application of relevant behavioral science research and concepts.
- IR 397 **TUTORIAL: INDUSTRIAL RELATIONS** (2-3) Contents to be determined according to the needs of the student.

Approved Electives: Upon consultation with and approval of the Department.

Finance (FI)

Staff: MR. ROTHWELL, *chair*; MR. COFFEY, DR. GLASGO, DR. JANKOWSKA, DR. S. JOHNSON, DR. RANDOLPH

Assisted by: MR. BENKERT, MS. EVERT

Upper Division Courses

- FI 255 **BUSINESS FINANCE** (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisites: AC 100, AC 101, BA 270.
- FI 265 **INVESTMENTS** (3) Evaluation, selection, and management of securities and portfolios. Includes a study of theory using analytical approaches. Prerequisite: FI 255.
- FI 270 **FINANCIAL INSTITUTIONS** (3) A study of the operations and management of the major financial institutions in the U.S. and the regulatory environment in which they operate. Prerequisite: FI 255.
- FI 285 **FINANCIAL STRATEGY** (3) Quantitative and nonquantitative techniques used in strategy formulation. Examination of internal consistency of financial goals and policies. Current literature and cases. Prerequisite: FI 255.
- FI 290 **REAL ESTATE FINANCE** (3) Properties and principles of institutions, instruments, and methods used to finance commercial, industrial and residential real estate. Prerequisite: FI 255.
- FI 301 **FINANCIAL MANAGEMENT** (3) Financial theory and its applications to corporation finance. Prerequisite: FI 255
- FI 350 **TAX ASPECTS OF FINANCIAL DECISIONS** (3) Overview of the important tax consequences of financial decisions. Emphasis on ability to recognize major symptoms of possible tax problems affecting business. Prerequisite: FI 255.
- FI 380 **CASES AND PROBLEMS IN FINANCE** (3) Case problems in financial analysis, working capital management, capital budgeting, capital structure, cost of capital, and dividend policy. Prerequisite: FI 301.
- FI 390 **INTERNATIONAL FINANCE** (3) International monetary system, international money and capital markets, and the financing of international business. Prerequisites: FI 255.
- FI 397 **TUTORIAL IN FINANCE** (3) Advanced reading and research in finance. Projects must have the approval of the Chair.

Information and Decision Sciences

Information and Decision Sciences (IS)

Staff: DR. RUWE, *chair*; DR. BIALAC, DR. CRABLE, DR. CUNNINGHAM, MR. B. JOHNSON, DR. THIERAUF, DR. WEBB

Assisted by: DR. CROSSWHITE, DR. EVERT, MR. GRAHAM, DR. HERBOLD, MR. HONKOMP, DR. KLEE, MR. MEYER, MR. SAPP, MR. WOOD

Lower Division Course

- IS 100 **PRINCIPLES OF DATA PROCESSING** (3) Concepts of systems and data processing. The student will gain actual experience using the "BASIC" language in a time-sharing mode. Prerequisite: MT 149.

Upper Division Courses

NOTE: IS 100 is prerequisite for all upper division courses. IS 200 is required for all majors.

- IS 200 **DATA ORGANIZATION** (3) Data structures for information systems, arrays, linked lists, trees, and algorithms for searching, sorting and maintenance of these structures. Prerequisite: IS 100.
- IS 332 **APPLIED STATISTICAL ANALYSIS** (3) A continuation of BA 270. The course emphasizes advanced statistical techniques which include multiple regression analysis, further topics in Analysis of Variance, forecasting & time series techniques, additional non-parametric techniques Bayesian estimation, and further topics in statistical & quality control. Prerequisite: BA 270
- IS 340 **ACCOUNTING INFORMATION SYSTEMS** (3). See AC 340.
- IS 342 **MANAGERIAL ASPECTS OF DATA PROCESSING** (3) Management of information system that centers on planning, organizing, directing, and controlling data processing activities. Emphasis on what an information systems manager does day-by-day. Prerequisite: IS 350. (MG 342)
- IS 350 **SYSTEMS ANALYSIS AND DESIGN** (3) Analysis of business data processing requirements and specification of the hardware and software for computer systems. Systems methodologies and project control. Prerequisite: IS 200. (MG 350)
- IS 352 **DATA PROCESSING INFORMATION SYSTEMS** (3) The project team approach to design and implementation of information systems. Documentation and coding. Walk-through and programming productivity techniques. A major programming project requiring implementation. Prerequisites: IS 350, 364.
- IS 354 **DISTRIBUTED PROCESSING SYSTEMS** (3) Evolution of distributed processing in the business environment, feasibility, implementation, networking, and case studies. Prerequisite: IS 350.
- IS 357 **DATA COMMUNICATIONS AND NETWORKING** (3) Data communication fundamentals for networking and distributed processing. Communication protocols, SNA, DECNET, and local area networks. Prerequisite: IS 100 (IS 350 recommended).
- IS 358 **DATA BASE DESIGN** (3) Hierarchical, network, and relational data base design. Data base management and query languages as utilized in business information systems. Prerequisite: IS 200.
- IS 359 **SMALL COMPUTERS FOR BUSINESS** (3) Microprocessor architecture, 16/32 bit systems, peripherals, operating systems, application software with emphasis on Unix operating system and the C programming language. Prerequisite: IS 100.
- IS 360 **ARCHITECTURE AND ASSEMBLER** (3) See CS 255. Prerequisite: IS 200.
- IS 361 **ADVANCED ASSEMBLER** (3) See CS 256. Prerequisite: IS 360.

Information and Decision Sciences

- IS 364 **COBOL PROGRAMMING** (3) Structured COBOL computer programming language with business applications. The emphasis is on writing professional programs. Prerequisite: IS 350 (CS 132).
- IS 365 **ADVANCED COBOL PROGRAMMING** (3) Development of systems of programs using structured COBOL. The emphasis is on advanced language features and advanced file processing techniques. Prerequisite: IS 364 (CS 252).
- IS 368 **FORTRAN PROGRAMMING** (3) See CS 113. Prerequisite: IS 100.
- IS 370 **COMPUTER GRAPHICS** (3) Hardware for computer graphics, theory of presentation, software. Review of current available technology. Student programming project and research. Prerequisite: IS 352, programming/analyst experience and permission of instructor.
- IS 395 **SPECIAL TOPICS IN INFORMATION SYSTEMS** (3) An in-depth look into a special topic not covered by other courses. Contents to be determined by interests of faculty and needs of students. Prerequisite: permission of instructor.
- IS 397 **TUTORIAL COURSE** (2-3) Research in scholarly journals on information systems. May also be used for a Senior Project. Open to students only with the consent of the Department Chair.
- IS 399 **CONTEMPORARY PROBLEMS IN INFORMATION SYSTEMS** (3) Current problems and developments and future trends in the advancement of information science in business. Review of professional practice. Prerequisite: Senior status—IS/CS majors.

Approved Electives: Junior and senior majors may take graduate-level courses (BA 600 and above) with permission of the Chair and instructor.



Management

Management (MG)

Staff: DR. J. ANDERSON, *chair*; DR. CAMEALY, DR. CLARK, DR. EUSTIS, DR. GEEDING, DR. P. JONES, DR. KLEKAMP, DR. TATHAM

Assisted by: DR. COSGROVE, MR. DOMIZIO, MR. GEHNER, MR. GREGORY, DR. HELLER, MR. HUHN, DR. KAISER, DR. PETRICK, DR. QUATMAN, DR. RECKER, MR. STONE, DR. WEISSBUCH, MR. WINTZ, MR. ZIOLKOWSKI

Upper Division Courses

- MG 200 **ORGANIZATION BEHAVIOR** (3) Current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized.
- MG 300 **LABOR RELATIONS** (3) Issues and problems involved in union-management relations. Evaluation of collective bargaining as a method for resolving labor disputes in our economic system. Prerequisite: MG 200 (IR 300).
- MG 301 **FINANCIAL MANAGEMENT** (3) Major problems and methods used in financing business enterprise from the viewpoint of business management. Prerequisites: FI 255, MG 200 (FI 301).
- MG 302 **PRODUCTION MANAGEMENT** (3) Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisites: MG 200, MT 149, 150, BA 270.
- MG 304 **ENTREPRENEURSHIP**(3) Identifying, evaluating and developing systems for the management of new business opportunities. Prerequisites: MG 200, MK 100, FI 255, AC 100 and AC 101.
- MG 310 **WORKGROUP PROCESS** (3) Analysis of forces controlling group formation and development in business and organizational work situations. Techniques for analyzing and productively managing informal groups. Prerequisite: MG 200.
- MG 312 **CONTEMPORARY MANAGEMENT ISSUES** (3) Analysis of recent issues facing contemporary managers. Use of supplemental business sources to analyze and forecast trends that will affect managers in the 1980's and beyond. Prerequisite: MG 200.
- MG 315 **ORGANIZATIONAL THEORY AND DESIGN** (3) Theory and design of organizational structures as applied to the business firm. Prerequisite: MG 200.
- MG 320 **PERSONNEL ADMINISTRATION** (3) Selection, training, and development of organization personnel, with emphasis on present personnel principles and practices. Prerequisite: MG 200. (IR 320).
- MG 321 **INDUSTRIAL PSYCHOLOGY** (3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon the human element in American industry. Prerequisite: MG 200 (PS 251, IR 321).
- MG 323 **BUSINESS COMMUNICATIONS** (3) Essentials of communicating effectively in business with accent on written and oral communication skills. Prerequisite: MG 200.
- MG 325 **MANAGEMENT CONTROL THROUGH ACCOUNTING** (3) A study of the uses of internal accounting control procedures from a managerial perspective. Prerequisites: AC 101, FI 255, (FI 325).
- MG 342 **MANAGERIAL ASPECTS OF DATA PROCESSING** (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of computer systems. Programming project management. Prerequisite: IS 200 or equivalent. (IS 342).
- MG 350 **SYSTEMS ANALYSIS AND DESIGN** (3) Structural analysis and design of computer information systems. Project control and system evaluation through simulation. Prerequisite: IS 200 or equivalent. (IS 350).

MG 397 TUTORIAL COURSE (3) Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.

Approved Electives: Upon consultation with, and approval of, the Department.

Marketing (MK)

Staff: DR. SCHERTZER, *chair*; DR. T. HAYES, DR. KUMPF, DR. MAYANS, DR. TREBBI, DR. VAN KIRK

Assisted by: MR. HATTENBACH, MS. KAINED, MR. LANDSMAN, MR. SCHAEFFER, MR. SHORT.

Lower Division Course

MK 100 PRINCIPLES OF MARKETING (3) Marketing concepts, functions, institutions, and policies. Marketing's role in society. Prerequisite for upper division courses unless waived by Department Chair.

Upper Division Courses

MK 202 MARKETING RESEARCH (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: BA 270.

MK 204 MARKETING MANAGEMENT (3) Marketing planning. The coordination of all aspects of marketing. Efficient utilization of resources. Prerequisites: MK 202 and three hours of upper division marketing.

MK 210 INDUSTRIAL MARKETING (3) Problems of marketing industrial products. Management of the pricing, selling, and servicing of industrial goods distributions. Customer services.

MK 220 INTERNATIONAL MARKETING (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare.

MK 230 RETAILING MANAGEMENT (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study.

MK 231 ADVANCED CONCEPTS IN RETAILING (3) Study of retailing beyond the introductory course. Special emphasis on buying and merchandising functions. Prerequisite: MK 230 or permission of instructor.

MK 235 DISTRIBUTION CHANNELS (3) Macro-marketing institutions and channels. Time, place, and behavioral concepts in the channels of distribution.

MK 245 MARKETING COMMUNICATIONS (3) Fundamental behavioral and communication concepts used in developing effective communications programs.

MK 250 PROMOTION – ADVERTISING (3) Creative and institutional aspects of advertising and their relationship to market and product attributes. Effects of legal and social environment.

MK 255 NEW PRODUCT DEVELOPMENT (3) Focuses on new products as a major source of corporate growth. Included are such topics as: identification of new business opportunities; the stages of new product development; risk assessment and reduction.

MK 261 PROMOTION – SELLING (3) Dynamics of selling and techniques of persuasive leadership. Sales management. Selection, training, compensation, and analysis of sales force activities.

MK 270 CONSUMER BEHAVIOR (3) Marketing strategy implications of consumer behavior. Anthropology, economics, psychology, sociology, and the consumer. Prerequisite: MK 202.

Center for Management and Professional Development

MK 292 CONTEMPORARY MARKETING ISSUES (3) Current developments in consumerism and consumer protection. Ecology, social responsibility, and ethical issues. Governmental roles.

MK 295 TUTORIAL COURSE (2-3) Research, meetings, and attendance at scheduled lectures as determined by the advisor. Prerequisite: permission of the Chair.

MK 299 MARKETING PLANNING AND ANALYSIS (3) Application of marketing principles to case analysis. Prerequisites: MK 204 and six hours of upper division courses in marketing.

Approved Electives: Upon consultation with, and approval of, the Department.

Center for Management and Professional Development

Staff: DR. ANDREW C. EUSTIS, Director; FR. RAPHAEL DOMZALL, Director of Religious Development Programs, SUE BENSMAN and CHARLENE REINERSMAN, Program Coordinators.

Assisted by: MEMBERS OF THE XAVIER UNIVERSITY FACULTY AND RESOURCE PERSONNEL FROM LOCAL AND NATIONAL SOURCES.

Numerous short-term seminars and workshops as well as consultation and conference planning are offered by the University through the Center for Management and Professional Development.



Departments

College of Professional Studies

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

Criminal Justice (CJ)

Staff: MR. HAHN, *chair*; DR. RICHARDSON, *Director of Undergraduate Program*, DR. ENDRES.

Assisted by: MR. CONCANNON, MR. ENSIGN, MR. LICHTENFELD.

Lower Division Courses

- CJ 101 **INTRODUCTION TO CRIMINAL JUSTICE** (3) An overview of the legal basis of the criminal justice system and of its structures and functions. (SW 101).
- CJ 102 **INTRODUCTION TO LAW ENFORCEMENT** (3) Overview of policing problems and procedures; legal and philosophical issues in law enforcement; organization and administration of police agencies.
- CJ 110 **AMERICAN GOVERNMENT** (3) Legal, behavioral, historic, and contemporary aspects of the American Political System. (PO 110).
- CJ 167 **INTRODUCTION TO SOCIAL WORK** (3) (SW 167).

Upper Division Courses

- CJ 210 **BASIC CONSTITUTIONAL LAW AND THE AMERICAN COURTS I** (3) Principles; special reference to rights and obligations of various role players in the criminal justice system. Structure and functions of the courts.
- CJ 221 **JUVENILE JUSTICE IN A CHANGING SOCIETY** (3) Juvenile Court philosophy and practices; federal and state legislation; current trends and development of standards; alternatives to incarceration. Prerequisite: CJ 101.
- CJ 222 **JUVENILE DELINQUENCY AND THE JUVENILE COURT** (3) Dynamics of juvenile delinquency and official reactions of courts and agencies.
- CJ 230 **BASIC CONSTITUTIONAL LAW AND THE AMERICAN COURTS II** (3) Jurisdiction, processes and constitutional principles affecting them. Management.
- CJ 232 **CAPITAL PUNISHMENT: OTHER ISSUES IN PUNISHMENT** (3).
- CJ 233 **HUMAN DIGNITY IN THE HELPING PROFESSIONS** (2-3) An overview of humanistic approaches to the helping professions. Included are effective communications, emotional involvement, and development of professional interpersonal relationships. (ED 488, PS 488, SO 488).
- CJ 260 **CURRENT ISSUES IN CRIMINAL JUSTICE** (3) Prerequisite CJ 101 (SW 260).
- CJ 265 **CLASS AND CLASS CONFLICT** (3) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective. (SO 265).
- CJ 266 **CRIME AND PERSONALITY** (3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (CJ 566, ED 266, PS 266).

Criminal Justice

- CJ 268 **OVERVIEW OF CONTEMPORARY CORRECTIONS** (3) Prerequisite: CJ 101 (SW 265).
- CJ 276 **PSYCHOLOGY OF DELINQUENCY** (2) Types and causes of juvenile delinquency together with brief case histories. (CJ 576, PS 276, ED 276).
- CJ 281 **METHODS OF RESEARCH IN CRIMINAL JUSTICE** (3).
- CJ 290 **CRIMINOLOGY AND PENOLOGY** (3) Causative theories of crime. Crimes and criminals in the context of behavioral systems. Policies and programs of legal treatment. (SO 290).
- CJ 291 **PRACTICUM IN CRIMINAL JUSTICE** (3).
- CJ 307 **CHILD WELFARE** (3) (SW 307).
- CJ 316 **SOCIAL POLICY AND CONTEMPORARY ISSUES** (3) (SW 316).
- CJ 318 **TRENDS IN MODERN SOCIETY: RACE RELATIONS** (3) (SW 318).

Graduate Courses

- CJ 506 **CRIMINOLOGY** (3) Theories of crime causality, systemic reaction to crime complex, critical evaluation of contemporary methodologies.
- CJ 507 **LAW ENFORCEMENT, COURTS AND CORRECTIONS; SEMINAR** (3) An overview of the principal elements of the criminal justice system, designed for students with no previous criminal justice education or experience.
- CJ 508 **COMMUNITY-BASED CORRECTIONS** (3).
- CJ 511 **LAW AND JUSTICE IN AMERICA** (3) Presentation of legal issues in criminal justice including rights of criminal justice workers and offenders, pertinent Supreme Court decisions and case law, interpretations of lawyer's role in the system, etc.
- CJ 520 **SOCIOLOGY OF CRIME AND DELINQUENCY** (3) Social foundations of the criminal justice system; social causation of and response to crime.
- CJ 521 **JUVENILE JUSTICE IN A CHANGING SOCIETY** (3) Critique of development of social control of child behavior in U.S., legal trends in juvenile court and institutional operations, evaluation of contemporary practice and methodology in the juvenile justice system.
- CJ 533 **INTERVIEWING AND COUNSELING IN CORRECTIONS** (3).
- CJ 534 **RATIONAL SELF COUNSELING** (3).
- CJ 537 **ADVANCED CORRECTIONAL COUNSELING** (3).
- CJ 541 **DIVERSION AND THE CRIMINAL JUSTICE SYSTEM** (3).
- CJ 542 **CRIMINAL JUSTICE ADMINISTRATION** (3) Organizational and management theories and practices in criminal justice settings.
- CJ 544 **CRIMES AGAINST THE ELDERLY** (3).
- CJ 550 **ALCOHOL AND CRIMINALITY** (3).
- CJ 554 **WOMEN IN CRIMINAL JUSTICE** (3).
- CJ 560 **CONTEMPORARY ISSUES IN CRIMINAL JUSTICE** (3).
- CJ 576 **PSYCHOLOGY OF DELINQUENCY** (3) PS 276, ED 276).
- CJ 583 **RESEARCH AND PLANNING IN CRIMINAL JUSTICE** (3) Social and policy science research designs applied to policy formulation, implementation and evaluation.

Education (ED)

Staff: DR. PARTRIDGE, *chair*; DR. A. ANDERSON, MR. BAKER, MRS. BRONSIL, DR. N. BRYANT, DR. DAILY, DR. FRY, DR. GAFFNEY, DR. HANNA, DR. HELMES, DR. KRAUS, DR. KRINER, DR. LOZIER, DR. McCONNELL, MS. McDERMOTT, DR. POHLMAN, DR. PRUDEN, DR. RIORDAN, DR. SCHWEIKERT, MR. SULLIVAN, DR. WUBBOLDING.

Assisted by: DR. BOOTHE, MR. BRANDT, MS. CHURCH-KISSEL, MS. DAHLMEIER, MS. DINKHELLER, DR. DRAUD, MS. DUNLOP-JONES, MR. EFFRON, MR. EICK, MR. GOULET, DR. GREEN, DR. E. GRIFFITH, SR. HABIG, MS. HARADON, MS. HERSCHMAN, DR. HILTZ, MR. HITCHENS, MR. KOFLER, MS. JOHNSON, DR. MOLLICA, MS. MOSS, MR. MUNSIE, MS. PERRY, MS. POHLMAN, SR. RISCHMANN, MR. SETA, MS. STAUB, MS. THOMAS, MR. TRAUTEN, DR. UCHTMAN, DR. VARIS, MS. VERTUCA, MR. VILD, MS. WARFIELD, AND THE DEPARTMENT OF PSYCHOLOGY.

Lower Division Courses

- ED 001 **FRESHMAN ELEMENTARY FIELD EXPERIENCES (0)** Must be taken concurrently with ED 300.
- ED 002 **SOPHOMORE ELEMENTARY FIELD EXPERIENCES (0)**
- ED 003 **PRE-STUDENT TEACHING EXPERIENCE (0)**
- ED 102 **FIELD EXPERIENCES: SECONDARY (1-2)** Students not in the standard undergraduate program fulfill field experiences by this requirement.
- ED 131 **INTRODUCTION TO SECONDARY EDUCATION (3)** The past and present role of the secondary school in American society. Legal, moral, professional responsibilities. Career opportunities. Field experiences.
- ED 141 **HUMAN GROWTH AND DEVELOPMENT I (3)** The genetic study of growth and development. Influence of heredity and environment. Early childhood through adolescence. Field experiences.
- ED 142 **HUMAN GROWTH AND DEVELOPMENT II (3)** Human growth and learning. Evaluation, observation skills, behavior problems, exceptionalities. Field experiences.

Upper Division Courses

- ED 200 **ADVANCED COMPOSITION FOR TEACHERS (3) (EN 200).**
- ED 201 **SECONDARY METHODS (3)** Methodology applicable to high school teaching in general. Methods best suited to each of the major content fields. Field Experiences. Materials fee: \$10.00
- ED 202 **SCHOOL CURRICULUM (2)** The curriculum of the elementary and secondary schools. Principles and practices. Planning. Field Experiences. UNDERGRADUATE CREDIT ONLY.
- ED 204 **STUDENT TEACHING (ELEMENTARY) (6)** Laboratory experience under the supervision of a critic teacher. One semester. ED 304 is required concurrently. UNDERGRADUATE CREDIT ONLY.
- ED 206 **LINGUISTICS (3) (EN 206).**
- ED 210 **SECONDARY CURRICULUM AND SPECIAL METHODS (6)** Sequencing subject matter. Instructional strategies, evaluation, use of media and equipment. Study of methods peculiar to secondary school subjects. Field experiences. Materials fee: \$10.00
- ED 211 **CLINICAL EXPERIENCES (SECONDARY) (1)** Training in use of diagnostic materials. Field practice in diagnosis remediation. UNDERGRADUATE CREDIT ONLY.

Education

- ED 212 **CLINICAL EXPERIENCES (ELEMENTARY)** (1) Diagnosis, prescription, implementation and evaluation of elementary school children. Emphasis on Language Arts and Mathematics. UNDERGRADUATE CREDIT ONLY.
- ED 214 **METHODS OF TEACHING READING** (3) Developmental process of reading. Reading as an art of communication, as a perceptual-conceptual process. Reading in the content areas.
- ED 215 **DEVELOPMENTAL READING IN THE SECONDARY SCHOOLS** (3) Skill development, diagnostic techniques, readability formulas, textbook evaluation, innovative programs and materials specially designed for secondary reading. Field experiences.
- ED 216 **DIAGNOSTIC READING INSTRUCTION** (3) Reading techniques and instruments for diagnosis of groups or individual students. Determining reading level and potential by the pre-service teacher. Programs of remediation and enrichment. Reading in content areas. Prerequisite: ED 214.
- ED 220 **INTRODUCTION TO SOCIAL WORK** (3).
- ED 222 **PRINCIPLES OF SOCIAL CASE WORK** (3).
- ED 226 **CHILDREN'S LITERATURE** (3) Survey of literature available for elementary age children; how to use literature in the classroom.
- ED 227 **ADOLESCENT LITERATURE** (3)
- ED 231 **DEVELOPMENTAL PSYCHOLOGY** (3) (PS 231).
- ED 232 **CHILD PSYCHOLOGY** (2-3) (PS 232).
- ED 233 **ADOLESCENT PSYCHOLOGY** (2-3) (PS 233).
- ED 261 **SOCIAL PSYCHOLOGY** (2) (PS 261, SW 261).
- ED 266 **CRIME AND PERSONALITY** (3) (CJ 266, CJ 566, PS 266).
- ED 271 **INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD** (2) Symptoms of maladaptive behavior in youngsters. Evaluation of etiological factors. Personality disorders. Services, facilities, and agencies for treatment. (PS 271).
- ED 272 **GUIDING THE EMOTIONALLY DISTURBED CHILD** (2) Total programming for disturbed youngsters. Behavioral reports and legislations. Physical, psychological, and sociological causes.
- ED 273 **EDUCATION AND BEHAVIORAL MANAGEMENT: EXCEPTIONAL CHILD** (2) Instruction and curriculum. Behavior modification and classroom management approaches. Learning style relationship to behavior. Behavior consultation models.
- ED 274 **MENTAL HYGIENE** (2) (PS 274).
- ED 276 **PSYCHOLOGY OF DELINQUENCY** (2) Definition, causes and categories of delinquency. Court processes. Court rulings. Current philosophies. Service agencies. Personality and maladaptive disorders. (CJ 276, CJ 576, PS 276).
- ED 277 **ABNORMAL PSYCHOLOGY** (2-3) (PS 277).
- ED 290 **AUDIOVISUAL COMMUNICATION** (3) Design, production, selection/evaluation, utilization of media for instruction. (CA 290).
- ED 291 **VISUAL COMMUNICATION DESIGN** (3) Research and theory, design, production, and evaluation of still visual instructional, informational, and aesthetic materials. Graphic and photographic materials. (CA 291).
- ED 292 **ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS** (3) Organization, administration, and utilization of elementary and secondary school media centers. Organizational and personnel management of educational media resources. (CA 292).

Education

- ED 300 **INTRODUCTION TO ELEMENTARY EDUCATION (3)** Considers elementary school in school system and society and relates curriculum thereto. Multi-cultural implications. Must be taken concurrently with ED 001.
- ED 301 **ELEMENTARY METHODS AND MATERIALS: SCIENCE (2)** Curriculum. Integrated course in science. Prerequisite: ED 300. Materials fee: \$5.00
- ED 302 **ELEMENTARY METHODS AND MATERIALS: SOCIAL STUDIES (2)** Curriculum. Multi-cultural implications. Prerequisite: ED 300.
- ED 304 **SEMINAR: PROFESSIONAL PROBLEMS IN ELEMENTARY EDUCATION (3)** Must be taken in conjunction with ED 204. UNDERGRADUATE CREDIT ONLY.
- ED 305 **KINDERGARTEN METHODS AND MATERIALS I,II (2,2)** Two semesters. Preschoolchildren'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.
- ED 306
- ED 307 **ELEMENTARY METHODS AND MATERIALS: LANGUAGE ARTS AND LINGUISTICS (3)** Curriculum. Multi-cultural implications. Prerequisite: ED 300. Materials fee: \$5.00
- ED 315 **ELEMENTARY METHODS AND MATERIALS: MATHEMATICS (3)** The modern mathematics curriculum in the elementary school. Materials, methods, and content.
- ED 325 **TEACHING MODERN LANGUAGE (3)** (FR 325, GR 325, SP 325).
- ED 331 **REFERENCE SERVICE (3)** Bibliographical and reference materials in subject fields. Training and practice in solving questions arising in reference services.
- ED 332 **BASIC CATALOGING AND CLASSIFICATION (3)** Theory and practice. Subject cataloging. Complex entries. Dewey Decimal and Library of Congress classifications. Library of Congress subject headings.
- ED 344 **EDUCATION, CURRICULUM DEVELOPMENT, AND PLANNING: MENTALLY RETARDED (2)** Methods, techniques, skills and competencies, current teaching styles. Curriculum planning and implementation. Group and individual strategies.
- ED 350 **METHODS OF OBSERVATION OF CHILDREN (3)** Techniques and strategies for systematic observation in the classroom. Records of observations. Instruments for addressing curiosities or problems. Analysis of live and videotaped classroom behavior.
- ED 351 **MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH (3)**
- ED 352 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: ELEMENTARY GRADES (3)**
- ED 353 **MONTESSORI MATERIALS OVERVIEW (3)**
- ED 354 **ADVANCED MONTESSORI MATERIALS I, II (3,3)**
- ED 355
- ED 356 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: ELEMENTARY (3)**
- ED 357 **MONTESSORI ELEMENTARY INTERNSHIP I (3)**
- ED 358 **MONTESSORI ELEMENTARY INTERNSHIP II (3)**
- ED 359 **FULL-DAY CHILD CARE METHODS (3)**
- ED 365 **PSYCHOLOGY OF WOMEN (2-3)** (PS 365).
- ED 367 **PHYSIOLOGY OF EXERCISE (2)**
- ED 368 **INSTRUCTOR PREPARATION: CARDIOPULMONARY RESUSCITATION (2)**
- ED 369 **COACHING GOLF (2)** Area II.

Education

- ED 370 **COACHING WRESTLING** (2) Elective open to upper division students only. Area II.
- ED 371 **COACHING TUMBLING AND GYMNASTICS** (3) Open to upper division students only.
- ED 372 **COACHING FOOTBALL** (2) Area I.
- ED 373 **COACHING BASKETBALL** (2) Area I.
- ED 374 **COACHING BASEBALL** (2) Area I.
- ED 375 **COACHING TRACK AND FIELD** (2) Area II.
- ED 376 **THEORY OF OFFICIATING** (2) Elective open to upper division students only. Area I.
- ED 377 **ADMINISTRATION OF PHYSICAL EDUCATION** (3) Principles, organization, and administration of physical education programs. The intramural athletic program. UNDERGRADUATE CREDIT ONLY.
- ED 378 **ADMINISTRATION OF HEALTH EDUCATION** (3) Methods and materials. Organizational techniques and the administration of the school health program. UNDERGRADUATE CREDIT ONLY.
- ED 379 **PHYSICAL EDUCATION CURRICULUM** (2) Field experiences.
- ED 380 **PHYSICAL EDUCATION METHODS AND MATERIALS** (4) Theory and practice. Touch football, soccer and speedball, tumbling and apparatus, basketball, volleyball, conditioning, track and field, softball. Testing.
- ED 381 **TESTS AND EVALUATION IN PHYSICAL EDUCATION** (2)
- ED 382 **ELEMENTARY SCHOOL HEALTH AND HYGIENE** (2)
- ED 383 **COACHING WOMEN'S TEAM SPORTS** (2) Area II.
- ED 384 **COACHING TENNIS** (2) Area II.
- ED 385 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL** (2)
- ED 386 **KINESIOLOGY** (2) Prerequisites: BL 106-107, 108-109.
- ED 387 **FIRST AID AND SAFETY** (2) The American Red Cross Standard and the Advanced First Aid course. The prevention and treatment of athletic injuries.
- ED 388 **PERSONAL AND COMMUNITY HEALTH** (2) Personal and community health for use in teaching that subject.
- ED 389 **ADAPTIVE PHYSICAL EDUCATION** (3) Methods, materials, and programs for the organization and administration of physical education for atypical individuals in schools and the community.
- ED 390 **WORKSHOP: INTENSIVE PHONICS** (2)
- ED 392 **SENSORY INTEGRATION AND MOVEMENT EDUCATION** (2)
- ED 393 **ZOOS ARE CLASSROOMS** (1) (BL 393).
- ED 394 **LOCAL RESOURCES FOR TEACHING LIFE SCIENCES** (2) (BL 394).
- ED 403 **SUPERVISED STUDENT TEACHING AND SEMINAR** (9) Laboratory experience in secondary school teaching for one semester under a critic teacher. UNDERGRADUATE CREDIT ONLY.
- ED 410 **HANDS-ON DEVELOPMENTAL SCIENCE** (2) (PH 410).
- ED 411 **WORKSHOP: BASIC ELECTRONICS FOR TEACHERS** (2) (PH 411).
- ED 423 **WORKSHOP: TEACHING THE GIFTED** (2)

- ED 436 **OCCUPATIONAL ORIENTATION AND JOB TRAINING FOR THE MENTALLY RETARDED** (2) Principles and techniques. Job classification, selection and placement. Curriculum development in occupational areas. Community agencies. Work experiences. Legal aspects. Placement. Follow-up services.
- ED 439 **SURVEY: LEARNING AND BEHAVIOR DISORDERS** (2) Field experiences. UNDERGRADUATE CREDIT ONLY. (ED 639)
- ED 440 **INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING; EXCEPTIONAL CHILDREN** (2) Fee: \$10.00 UNDERGRADUATE CREDIT ONLY (ED 640)
- ED 441 **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN** (2) UNDERGRADUATE CREDIT ONLY (ED 641).
- ED 443 **COUNSELING PARENTS OF EXCEPTIONAL CHILDREN** (2) UNDERGRADUATE CREDIT ONLY (ED 643).
- ED 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.
- ED 445 **SPEECH AND LANGUAGE DEVELOPMENT** (2) Acquisition, development and problems of speech and language. Assessment, remediation, and educational roles.
- ED 446 **EDUCATION OF THE MODERATELY, SEVERELY, AND PROFOUNDLY RETARDED** (2)(ED 746). UNDERGRADUATE CREDIT ONLY.
- ED 448 **TEACHING PRACTICUM: SPECIAL EDUCATION – LD/BD or EMR or MSPR** (3) UNDERGRADUATE CREDIT ONLY.
- ED 449 **TEACHING INTERNSHIP: MSPR, LD/BD, OR EMR** (9)
- ED 454 **MONTESSORI METHODS AND MATERIALS I** (3)
- ED 455 **MONTESSORI METHODS AND MATERIALS II** (3)
- ED 456 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: PRE-PRIMARY** (3)
- ED 457 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: PRE-PRIMARY** (3)
- ED 458 **MONTESSORI PRE-PRIMARY INTERNSHIP I** (3)
- ED 459 **MONTESSORI PRE-PRIMARY INTERNSHIP II** (3)
- ED 463 **THEORIES OF PERSONALITY I, II** (2-3 each semester). Prerequisites: 12 semester hours in psychology (Ps 463, 464).
- ED 464
- ED 470 **TEACHING BASIC AQUATICS** (2)
- ED 472 **LIFE SAVING** (2)
- ED 473 **WATER SAFETY** (2)
- ED 476 **COACHING SOCCER** (2) Area I.
- ED 498 **SPECIAL STUDY** (2-6) Credit to be arranged. Special reading and directed study for advanced students.

Graduate Courses

The Department of Education on the graduate level is organized to offer the in-service teacher or school administrator opportunities for advanced professional training through individual courses or through balanced programs leading to the Master of Education degree.

- ED 501 **PHILOSOPHY OF EDUCATION** (3) The historic development of educational philosophy and theories. Evaluation of major current philosophies.

Education

- ED 502 **HISTORY OF AMERICAN EDUCATION** (3)
- ED 503 **ADVANCED EDUCATIONAL PSYCHOLOGY** (3) Major aspects of child and adolescent growth and development. The learning process and factors influencing learning.
- ED 505 **EDUCATIONAL ADMINISTRATION** (3) The relationships of the federal government, the state, and the local government to public and private education. Major administrative functions as operable in the elementary, middle, and secondary school.
- ED 507 **EDUCATIONAL RESEARCH** (3) Methodology of educational research. Statistics in research. Locating educational research. (2 credits) Research project (1 credit). A separate grade is given for each phase of the course.
- ED 510 **STATISTICAL TECHNIQUES** (2-3) (PS 210).
- ED 511 **ADVANCED STATISTICS** (3) (PS 511).
- ED 512 **ADVANCED STUDY: AMERICAN EDUCATIONAL HISTORY** (3)
- ED 513 **PSYCHOLOGY FOR LEARNING AND TEACHING** (3)
- ED 514 **CURRICULUM DESIGN AND INSTRUCTION** (3)
- ED 515 **READING AND MATHEMATICS FOR ADMINISTRATORS** (3)
- ED 516 **PROFESSIONAL SEMINAR: MASTER OF ARTS (SECONDARY TEACHING)** (3)
- ED 529 **BEHAVIOR THERAPY** (3) (PS 529).
- ED 530 **LEARNING AND MOTIVATION** (2-3) (PS 530).
- ED 531 **COUNSELING MINORITIES** (2) Theory, techniques and research in counseling of minority groups, such as blacks, Southern Appalachian migrants, etc., in settings of school and other agencies.
- ED 532 **PRINCIPLES OF GUIDANCE** (2) Principles of guidance for the helping professions. Educational, vocational and personal-social aspects of the individual. Essentials of a guidance program. (PS 532).
- ED 533 **COUNSELING PRINCIPLES AND TECHNIQUES** (2) Theory of counseling. Case method. Relationships to testing and to other sources of data. Interviewing. Place and value of records. Clinical procedures. (PS 533).
- ED 534 **ELEMENTARY SCHOOL GUIDANCE** (2) Principles, philosophy, administration, and organization of guidance services in the elementary school setting. Role and function of the counselor.
- ED 536 **GROUP PROCESS** (2) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work. (PS 536).
- ED 537 **ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES** (2) Administrative guidance tasks.
- ED 539 **INDIVIDUAL COUNSELING LABORATORY** (2) Individual clients. Interviewing skills. Data collecting and recording. Interagency collaboration. Prerequisites: ED 532, 533, 579. *By Reservation only.*
- ED 540 **FIELD EXPERIENCE IN GUIDANCE** (2) Supervised experiences in a school or agency setting. Practice in services. Seventy-five clock hours in-school contact with a school counselor. Prerequisite: ED 539, or taken concurrently. *By Reservation Only.*
- ED 541 **ELEMENTARY SCHOOL ADMINISTRATION** (3) Criteria for an effective elementary school organization. Patterns of school organization. Administrative problems. Conflict resolution and interpersonal relations. Management.

Education

- ED 542 **SECONDARY SCHOOL ADMINISTRATION (3)** Organization of secondary schools. Techniques of schedule making. Administrative problems. Management. Conflict resolution and interpersonal relations.
- ED 543 **SUPERVISION OF INSTRUCTION (2)** Techniques of improving instruction through supervision. Diagnosis of learner needs. Appropriate instructional strategies.
- ED 544 **ELEMENTARY CURRICULUM (2)** Aims of elementary education. Specific objectives of kindergarten, primary, and upper-elementary divisions. Classroom techniques for realizing these objectives. Instructional strategies. Needs assessment.
- ED 545 **SECONDARY CURRICULUM (2)** Aims of secondary education. Specific objectives of curricular areas. Classroom techniques for realizing these objectives. Instructional strategies. Needs assessment.
- ED 547 **CONTEMPORARY PROBLEMS IN EDUCATION (1-2)** A Seminar.
- ED 550 **SCHOOL ADMINISTRATION: ORIENTATION (2)** Administrative theory and practice. School organization. Management, leadership. Conflict resolution and interpersonal relations.
- ED 560 **PUPIL PERSONNEL ACCOUNTING AND RECORDS MANAGEMENT (2-3)**
- ED 561 **ADMINISTRATION OF PUPIL PERSONNEL SERVICES (2-3)** Duties and functions involved in administering pupil personnel services and in pupil accounting. Responsibilities of the director of pupil personnel. Systematized records management.
- ED 562 **POLITICAL STRUCTURES AND PUBLIC RELATIONS (3)** Relations of school and community. Effective use of media of public relations--press, radio, television. The political system, structures, and schools.
- ED 563 **SCHOOL BUSINESS AFFAIRS AND PHYSICAL FACILITIES (3)** Techniques of budgetary control. School purchasing. Food service. Supplies. Equipment and machinery. School insurance. Plant records. Maintenance and repair. Pupil transportation. Proper utilization of building facilities. Sites. structures, equipment.
- ED 564 **ADMINISTRATION OF STAFF PERSONNEL (3)** Staff personnel program: hiring, fringe benefits, salary schedules. Staff development and evaluation. Employer-employee relations. Collective bargaining. Contract management.
- ED 565 **SCHOOL LAW I (3)** Legal framework within which schools operate. Federal and state precedents. State code. Legal provisions for school finance.
- ED 566 **SCHOOL FINANCE AND ECONOMICS (3)** Current issues. Financing American elementary and secondary education. Revenue sources and expenditures. Ohio school financing. The economic system. Economic cycles. The economy and its influence on the schools.
- ED 568 **SUPERVISORY PRACTICUM (2)** Planned field experience for students seeking administrative/supervisory certification. Registration by reservation only. Prerequisites: ED 550, 541 or 542, 543, 660 or 544 or 545. Administrative fee: \$20.00
- ED 570 **POLICY PLANNING AND EVALUATION (3)** Objectives. Evaluation of educational programs. Pupil achievement evaluation.
- ED 579 **PSYCHOLOGICAL AND ACHIEVEMENT TESTS (2-3)** Group tests. Testing procedures. Rationale of intelligence, aptitude, achievement, interest, and personality tests. Selection and evaluation of group tests. (PS 279).
- ED 580 **PSYCHOPATHOLOGY (2)** (PS 580).
- ED 582 **INDIVIDUAL TESTS OF INTELLIGENCE (4)** Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence. (PS 582).
- ED 587 **HUMANISTIC PSYCHOLOGY (3)** (PS 287).

Education

- ED 590 **ADMINISTRATION OF SCHOOL ATHLETICS** (3) Investigation and discussion of current problems and policies pertinent to administration of school athletics.
- ED 591 **LEADERSHIP IN OUTDOOR EDUCATION** (3) Consideration is given to settings for outdoor education, school camp functions, and administration. Emphasis on group and individual camping techniques.
- ED 592 **ADMINISTRATION OF INTRAMURAL ACTIVITIES** (3) Treatment of administrative problems, policies, and procedures involved in intramural activities as applied to school systems.
- ED 593 **PREVENTION AND CARE OF ATHLETIC INJURIES** (3).
- ED 595 **ADMINISTRATION OF COMMUNITY RECREATION** (3) Structure and principles as they are related to the organization and administration of school and community recreational programs.
- ED 596 **ADMINISTRATION OF PHYSICAL FITNESS PROGRAMS** (3) Components. Organizing and administering a functional physical fitness program for sports and physical education. The individual. Physical education tests.
- ED 597 **TRENDS: PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS** (3).
- ED 598 **LAW: PHYSICAL EDUCATION AND ATHLETICS** (3).
- ED 600- **SPECIAL WORKSHOPS, INSTITUTES, SEMINARS, INTERSESSIONS** (1-6)
ED 625 Courses will be specified as to title when offered. Those listed below regularly recur. Course numbers, titles, and descriptions of courses not listed are available upon request from the Dean of the Summer Sessions.
- ED 608 **GATB TRAINING** (1-2) Fee: \$25.00.
- ED 615 **WORKSHOP: GROUP DYNAMICS** (2) Materials fee: \$15.00.
- ED 620 **ALCOHOL EDUCATION** (2).
- ED 622 **WORKSHOP: COACHING BASKETBALL** (2).
- ED 624 **WORKSHOP: COACHING FOOTBALL** (2).
- ED 630 **ISSUES: SCHOOL COUNSELORS I** (2-3).
- ED 632 **INTRODUCTION TO REALITY THERAPY** (2) Theory. Practice. Strength. Dynamics of Failure. Success identity.
- ED 633 **SUBSTANCE ABUSE** (2) Follow-up of disease concept of alcoholism. Exploration of intervention techniques in alcohol and other drugs.
- ED 635 **GUIDANCE AND DISCIPLINE** (2) Approaches to discipline. Discipline and punishment. Current theories concerning discipline are reviewed that are helpful to teachers, counselors, and administrators.
- ED 636 **CAREER DEVELOPMENT AND INFORMATION SERVICES** (2) Vocational choice theories. Sources of occupational information. Career education models related to career development programs in various settings.
- ED 637 **COUNSELING IN GRIEF, BEREAVEMENT, AND MOURNING** (2).
- ED 639 **SURVEY: LEARNING AND BEHAVIOR DISORDERS** (2) The exceptional child: developmental disabilities and handicapping conditions, etiology, classification systems, problems of adjustment.
- ED 640 **INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING: EXCEPTIONAL CHILDREN** (2) Assessment techniques and procedures. Diagnostic instruments. Actual administration of instruments. Prescriptive teaching methods. Prerequisite: ED 639. Materials fee: \$10.00.

Education

- ED 641 **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN (2)** Instructional models for exceptional children. Materials, practical application. Prerequisite: ED 639.
- ED 642 **ADVANCED METHODS AND MATERIALS: EXCEPTIONAL CHILDREN (2)** Prerequisite: ED 640.
- ED 643 **COUNSELING PARENTS OF EXCEPTIONAL CHILDREN (2)** Understanding parental attitudes and problems. Overview of counseling and consultation approaches. Current legislation. Programming skills for parents and staff.
- ED 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS (3) (PS 644, BA 644).**
- ED 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD (3)** Atypical child in regular and special classrooms. Methods of facilitating growth. Development of children who are crippled, retarded, hard of hearing, defective in vision, defective in speech, etc. (PS 646).
- ED 647 **CLINICAL STUDIES: EMOTIONALLY DISTURBED CHILD (2)** Treatment procedures and resources. Therapy for behavior and personality problems. The use of the school and community resources. Attitude altering. Direct treatment procedures. (PS 647).
- ED 648 **TEACHING PRACTICUM: SPECIAL EDUCATION – LD/BD; EMR; MSPR (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).
- ED 649 **TEACHING INTERNSHIP: LD/BD; MSPR; EMR (4-6)** Same as ED 648 but more extensive and in depth. Continues for one full semester. By Reservation only. (PS 649).
- ED 651 **MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH (3)** Seminar. Philosophy, historical development, contemporary critique, and current methodology. Classroom observation. Varieties of resources.
- ED 652 **CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT (3)** The pre-schooler. Current theory and research are related to Maria Montessori's concept of the child. (PS 652).
- ED 653 **EARLY COGNITIVE DEVELOPMENT (3)** Research findings related to childhood education. Principles of Montessori education: early enriched environment, critical periods for learning, and the role of the early activation drive. Play theory, beauty, creativity, and self-esteem. (PS 653).
- ED 654 **MONTESSORI METHODS AND MATERIALS I (3)** Daily living activities. Prepared environment. Sensitive periods. Creative materials. Introduction of learning on the sensory level. Requires time for materials familiarization in addition to class time.
- ED 655 **MONTESSORI METHODS AND MATERIALS II (3)** Concrete to abstract learning in natural sciences, social studies, arithmetic, language arts, music, dramatic activities, art. Observation and evaluation. Requires time for materials familiarization in addition to class time.
- ED 656 **CURRICULUM DESIGN AND TEACHING STRATEGIES I (3).**
- ED 657 **CURRICULUM DESIGN AND TEACHING STRATEGIES II (3).**
- ED 658 **MONTESSORI INTERNSHIP I (3).**
- ED 659 **MONTESSORI INTERNSHIP II (3).**
- ED 660 **CURRICULUM DESIGN AND TEACHING STRATEGIES (3)** Elementary and secondary school curriculum as personal and social environments and constructs within a complex society. Appropriate teaching strategies. Examining personal/professional attitudes, practices, values, roles, goals. Evaluation.

Education

- ED 662 **CURRICULUM DESIGN: PRACTICUM** (3-6) Instructional systems' concepts in school situation. Identification data. Problems analysis. Revision of plans. Evaluation. Field Project. Prerequisite: ED 660.
- ED 663 **WORKSHOP: CURRICULUM DESIGN AND TEACHING STRATEGIES** (6) Same as ED 660-662 combined and given as one course in summer. Theory and practicum combined. Fee: \$5.00.
- ED 665 **INSTRUCTIONAL TECHNOLOGY** (3) Instructional management functions. Instructional development functions. Instructional system components.
- ED 666 **EDUCATIONAL MEDIA PRACTICUM** (3-6) By arrangement. Field experience working in a media center under supervision for one or two semesters at the level of certification desired.
- ED 667 **PRACTICUM: SCHOOL SOCIAL WORK** (2-4) By reservation only.
- ED 668 **INTERNSHIP: SCHOOL SOCIAL WORK** (6) By reservation only.
- ED 670 **PSYCHOLOGY OF READING** (2) The perceptual nature of reading. Learning principles and reading process. Psychological basis of reading. Personality factors in reading. Motivation and reading interest. Scope of the reading process. (PS 670).
- ED 671 **READING IN THE CONTENT AREAS** (2) Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary content reading.
- ED 672 **THEORIES IN TEACHING READING** (2) Sociological, psychological, and educational analysis of approaches. Objectives, curriculum planning, organizational plans, and instructional materials. Interrelationship of general reading skills and study skills.
- ED 673 **SUPERVISION OF READING PROGRAMS** (2) The role of the Reading Supervisor at all levels. Curriculum design for planning reading programs at different levels and in content areas. Evaluation of reading programs and personnel. Prerequisite: two courses in reading.
- ED 675 **CURRENT RESEARCH IN READING** (2) Studies related to the process of and instruction in reading. Emphasis on classroom applications.
- ED 676 **ADVANCED CHILDREN'S LITERATURE** (3).
- ED 678 **DIAGNOSIS AND CORRECTION OF READING DISABILITIES** (3) Factors associated with reading problems. Diagnostic tests and remedial procedures. Materials fee: \$10.00 Prerequisite: ED 214 or 215.
- ED 679 **PRACTICUM IN READING** (3) Supervised practice in remedial and developmental reading. Laboratory fee: \$15.00 Prerequisite: ED 678. By reservation only.
- ED 683 **ADULT LEARNING** (3) Needs and characteristics of adult learner. Preferred learning style, personal experiences, human resources, change.
- ED 684 **PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT** (3) (BA 684).
- ED 685 **ORGANIZATIONAL COMMUNICATION** (3) (BA 685).
- ED 686 **ADVANCED STUDY: PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT I, II** (1-3) Credit by arrangement.
- ED 687 **INSTRUCTIONAL TV PRODUCTION** (3) Design, production, evaluation, and utilization of televised instruction. Small format, closed circuit systems for education and training.
- ED 688 **SEMINAR: EDUCATIONAL TECHNOLOGY** (2). Current issues and developments in the application of technology in education and training. Future trends for technology in education and training.
- ED 695 **RESEARCH: SPECIAL AREA** (1-2) Individual research in any special area to be specified. Prerequisite: ED 507.

Education

- ED 698 **SPECIAL STUDY** (2-3) Credit to be arranged. Special reading and directed study for advanced students.
- ED 699 **MASTER'S THESIS** (6) For students desiring a program leading to the degree of Master of Arts.
- ED 714 **MOTIVATING FOR ACHIEVEMENT** (2).
- ED 717 **COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS** (1) (PS 717).
- ED 730 **HISTORY AND SYSTEMS: COMMUNITY AND AGENCY COUNSELING** (2).
- ED 732 **INTENSIVE COUNSELING: PRACTICUM** (2).
- ED 744 **WORKSHOP: LANGUAGE DEVELOPMENT FOR THE EXCEPTIONAL CHILD** (2).
- ED 745 **SPEECH AND LANGUAGE DEVELOPMENT: WORKSHOP** (2) (ED 445).
- ED 746 **EDUCATION OF THE MODERATELY, SEVERELY, AND PROFOUNDLY RETARDED** (2) Psychology of MSPR. Curriculum planning. Functional skills.
- ED 748 **CLASSROOM MANAGEMENT** (2).
- ED 750 **METHODS OF OBSERVATION OF CHILDREN** (3) Techniques and strategies for systematic observation in the classroom. Records of observations. Instruments for addressing curiosities or problems. Analysis of live and video-taped classroom behavior.
- ED 752 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: ELEMENTARY GRADES** (3).
- ED 753 **MONTESSORI MATERIALS OVERVIEW** (3).
- ED 754 **ADVANCED MONTESSORI MATERIALS I, II** (3,3).
- ED 755
- ED 756 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: ELEMENTARY** (3).
- ED 757 **MONTESSORI ELEMENTARY INTERNSHIP I** (3).
- ED 758 **MONTESSORI ELEMENTARY INTERNSHIP II** (3).
- ED 760 **COMPUTERS IN EDUCATION** (2) Computers—large, micro, and timesharing. Programming ("BASIC"—PLUS and PASCAL). Administrative and instructional applications.
- ED 761 **MICROCOMPUTERS IN EDUCATION** (3) Microcomputer terms. Types. Capabilities. Peripherals. Prerequisite: ED 760 or knowledge of "BASIC."
- ED 765 **SCHOOL LAW II** (2).
- ED 766 **SCHOOL FINANCE II** (2).
- ED 767 **SUPERINTENDENT-SCHOOL BOARD RELATIONS** (2).
- ED 778 **ADVANCED ADMINISTRATIVE PRACTICUM** (3).

Nursing

Nursing (NR)

Staff: MS. MEYER, MS. QUINN, MS. SCHMIDT *co-chair*; MR. FRICKE, MS. LANIG

Upper Division Courses

- NR 300 **NURSING CONCEPTS AND PHILOSOPHY** (3) An overview of theories, concepts, and philosophies of professional nursing.
- NR 301 **NURSING PROCESS I** (3) Emphasis is placed on the nursing process and its relationship to community health concepts, community assessment, and the role of the nurse in family and individual physical and emotional health assessment. Prerequisites: BL 362, NR 300.
- NR 031 **NURSING PROCESS I PRACTICUM** (2) Practice settings for development of assessment skills are provided in campus laboratories and community agencies.
- NR 302 **NURSING PROCESS II** (3) This course exposes students to the broad concepts of community health through application of the nursing process. Emphasis is on health promotion and disease prevention for the high-risk expanding family. Prerequisites: NR 301, 031.
- NR 032 **NURSING PROCESS II PRACTICUM** (2) Clinical experiences in the local health department and other related community agencies are employed. Prerequisites: NR 301, 031.
- NR 304 **CULTURAL DIVERSITIES AND LIFE STYLES IN HEALTH AND NURSING.** (2) Emphasis is placed on concepts of world, national, and state health care needs and systems. The student is introduced to concepts of health care planning for diversified cultures. Cultural norms that influence nursing care and health practices are examined.
- NR 400 **INTRODUCTION TO NURSING RESEARCH** (2) An introduction to the basic theory of research in nursing. Research proposal is developed. Prerequisites: MT 146 and CS 124.
- NR 040 **NURSING RESEARCH PRACTICUM** (1) Research process is implemented. Prerequisite: NR 400.
- NR 401 **NURSING PROCESS III** (3) The focus is on concepts related to healthy behaviors of individuals in the young adult, middle, and later years. Also emphasized is maintenance, restoration, and rehabilitation for individuals encountering complex health problems. Prerequisites: NR 302, 032.
- NR 041 **NURSING PROCESS III PRACTICUM** (2) Health delivery for the adult patient in a variety of health care agencies. Prerequisites: NR 302, 032.
- NR 402 **NURSING PROCESS IV** (3) Principles of leadership and management in nursing practice are explored. The focus is on collaboration, coordination, evaluation, and advocacy with the health team and significant others in planning for and administering care to individuals, families and groups. Prerequisites: NR 401, 041.
- NR 042 **NURSING PROCESS IV PRACTICUM** (2) Principles of leadership and management in nursing are applied in a variety of health care settings. Prerequisites: NR 401, 041.
- NR 404 **CONTEMPORARY ISSUES IN NURSING** (2) The course provides an opportunity for the student to study in depth some of the social, political, economic, and legal issues which will affect the role of the professional nurse in contemporary American society. Prerequisites: NR 300, 302, 032.

Social Work (SW)

Staff: MS. JENKINS, chair; DR. LONG

Assisted by: MS. Pfennig, MR. Hudson

Lower Division Courses

- SW 101 **INTRODUCTION TO CRIMINAL JUSTICE** (3) (CJ 101),
- SW 104 **CONTEMPORARY SOCIAL PROBLEMS** (3) A systematic study of major social problems in modern society.
- SW 167 **INTRODUCTION TO SOCIAL WORK** (3) An introduction to the field of social work and the three major purposes of social work: (1) the enhancement of problem solving, coping, and developmental capacities of people; (2) the promotion of effective and humane operation of systems that provide people with resources and services; and (3) the successful linkage of people with these systems. (CJ 167).

Upper Division Courses

- SW 210 **FAMILY AND SOCIETY** (3) A study of marriage preparation, partner selection, marital adjustment, family structure and functions, and marital dissolution. Current problems facing the family will be explored with an emphasis on macro-intervention strategies which may be employed for problem resolution.
- SW 213 **DEVIANT GROUPS** (3) An in-depth study of American culture and the effects it has upon the relationship of the individual to the social order; a look at societal child-rearing practices, autonomy, and self-actualization.
- SW 216 **HUMAN LIFE CYCLE II: ADOLESCENT-ADULT** (3) Psychological, physiological, and social approach to development and experience from adolescence to death. Interdisciplinary. Prerequisites: PS 101, 232, and SO 101. (PS 216).
- SW 221 **JUVENILE JUSTICE IN A CHANGING SOCIETY** (3) (CJ 221).
- SW 260 **CURRENT ISSUES IN CRIMINAL JUSTICE** (3) (CJ 260).
- SW 261 **SOCIAL PSYCHOLOGY** (2-3) (PS 261, ED 261).
- SW 265 **OVERVIEW OF CONTEMPORARY CORRECTIONS** (3) (CJ 268)
- SW 307 **CHILD WELFARE** (3) This course is designed to acquaint the student with a broad knowledge of child welfare services. The course begins with the historical development of services to children and then emphasizes the types of needs children have, types of organized services they receive, and personnel available to give services to children. (CJ 307).
- SW 311 **RESEARCH METHODOLOGY** (3) An in-depth study of the basic steps and processes in scientific inquiry.
- SW 315 **SOCIAL INSTITUTION AS A SYSTEM** (3) A critical analysis of society's response to social welfare needs and problems; society's attempt to meet these problems through purposeful programs and organizations based on prevailing social values.
- SW 316 **SOCIAL POLICY AND CONTEMPORARY ISSUES** (3) A critical assessment of existing social welfare policy in light of current social issues relevant to contemporary society. Identification of developing trends in social welfare policy and their impact on existing human needs. (CJ 316).
- SW 318 **TRENDS IN MODERN SOCIETY: RACE RELATIONS** (3) A study of causes, effects, and forms of racial prejudice and stereotyping. Emphasis on social conditions and attitudes which affect black/white relations and the resulting individual and structural consequences. (CJ 318).

Social Work

- SW 325 **WOMEN/MEN: MYTH AND REALITY** (3) A study of the changing roles of men and women in American culture. Emphasis on sex roles, sex stereotyping, and socialization of the sexes. Social conditions and attitudes which affect the role and status of women and men in the institutions of government, business and economics, education, and family are explored.
- SW 330 **COMMUNITY ORGANIZING** (3) A study of the theories, principles, and techniques of community organization with an emphasis on practical research. (PO 330).
- SW 395 **DIRECTED STUDY** Credit to be arranged.
- SW 409 **GROUP DYNAMICS** (3) (PS 409).
- SW 415 **THEORY AND METHODS OF SOCIAL WORK PRACTICE I (MACRO)** (3) Introduction to major theories and bodies of knowledge required as a basis for social work intervention. An introduction to the values and skills associated with the practice of social work. Prerequisites: SW 315, 316.
- SW 416 **THEORY AND METHODS OF SOCIAL WORK PRACTICE II (MICRO)** (3) Continued development of the student's knowledge and application of the fundamentals of social work practice, the problem-solving process and the effective use of self as an agent of change. Prerequisite: SW 415.
- SW 417, SW 418 **SOCIAL WORK FIELD INSTRUCTION** (4,4) Students are provided with an opportunity to work directly with clients in an existing social service agency under the supervision of a skilled practitioner. To be taken concurrently with SW 419, 420.
- SW 419, SW 420 **SOCIAL WORK SEMINAR** (2,2) This course is designed to provide the student with an opportunity to integrate the knowledge and theory acquired in the classroom with the experiential learning gained from actual work experience.
- SW 424 **RESEARCH PAPER** (1) The research proposal developed in SW 311 is to be completed in this course.



Programs

Division of Continuing Education

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

English Language and American Civilization Program (ELAC)

Staff: DR. SIMON, *Director of International Studies*, DR. ABOUSHI, *Director of E. L. A. C. P.*

This program offers intensive English as a second language and an introduction to American culture. It is intended for international students or others who wish to improve their proficiency in the English language in order to pursue university degrees or career goals. There are three levels of study, each consisting of five classes which meet each weekday.

The courses offered include English Grammar, Reading/Literature, Listening, Pronunciation, Conversation, Study Skills and American Culture.

Separate brochure is available: (513) 745-3712.

Radiologic Technology (RT)

Staff: DR. HELMES, *chair*; MS. WIDEMAN, *program director*; MS. ENDICOTT, MRS. LEWIS, MS. NASH

Clinical Instructors: MS. TAPKE, MS. MOHR, MS. RANZ, MR. STATON, MR. MALOTT, ADJUNCT FACULTY.

- RT 100 **MEDICAL TERMINOLOGY** (1) Medical word roots, stems, prefixes and suffixes. Common medical abbreviations. Roentgenographic terminology.
- RT 102 **NURSING PROCEDURES** (1) Nursing concepts as applied to radiology. Basic patient care. Emergency procedures.
- RT 103 **RADIOGRAPHIC POSITIONING I** (2) Patient positioning for routine and special radiographic procedures.
- RT 104 **RADIOGRAPHIC POSITIONING II** (2) Continuation of RT 103.
- RT 105 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE I** (2) Basic concepts of radiation protection. Radiographic exposure and radiographic accessories.
- RT 106 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE II** (1) Radiographic film quality factors.
- RT 109 **CLINICAL EXPERIENCE I** (2) Radiographic clinical competency training and evaluation.
- RT 201 **PATHOLOGY** (1) Causes of disease. Radiographic evaluation of disease processes.
- RT 203 **SPECIAL PROCEDURES** (2) Special radiographic procedures. Contrast media. Patient care.
- RT 205 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE III** (1) Radiographic techniques. Exposure conversion. Tube rating.
- RT 209 **CLINICAL EXPERIENCE II** (2) Advanced radiographic clinical competency training and evaluation.

Real Estate

RT 210 **GENERAL RADIOGRAPHY (2)** Advanced radiation protection concepts, and patient positioning. Radiographic anatomy.

RT 211 **EQUIPMENT AND MAINTENANCE (1)** Design uses and maintenance of specialized radiographic equipment.

Block schedule available in separate brochure. Call 745-3355 for brochure.

Real Estate (RE)

Staff: DR. HELMES, *chair*; MR. DUFFY, *program coordinator*; MR. BREED, MR. KAT-SANIS, MR. KELLER, MR. KETLER, MR. KLEINHAUS, MR. LEVINE, MR. MCTIGUE, MR. MORROW

RE 322 **REAL ESTATE PRINCIPLES AND PRACTICES I (2)** R.E. products, markets, production, subdividing, developing, and brokerage. Selling residential properties, valuation, finance, the mortgage, and property management.

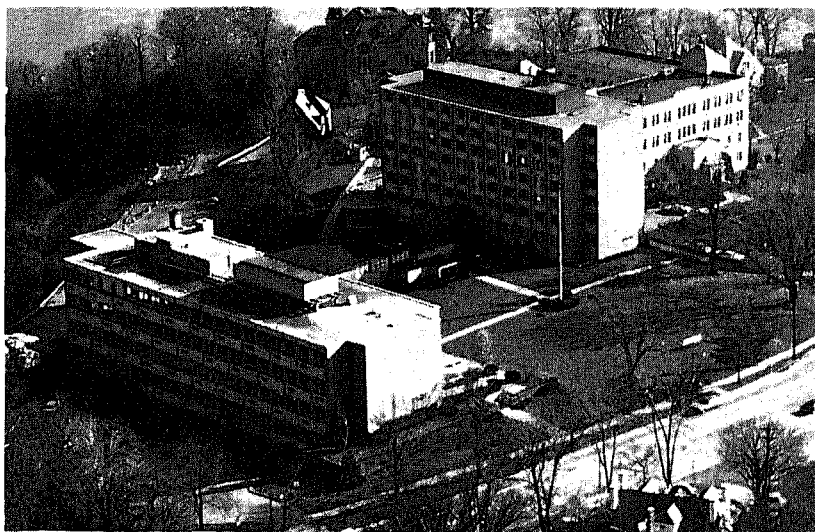
RE 323 **REAL ESTATE LAW (2)** Rights and interest in real and personal property. Contracts. Land records. Recording laws. Finance: mortgage law, title transfer, agency and license law. Leasing: landlord-tenant relations. City planning. Zoning.

RE 324 **REAL ESTATE BROKERAGE (2)** Investment: commercial, industrial, and income properties. Property management. R.E. economics. Administration and brokerage. Listing. Advertising. Operations. Salesmanship. Finance. Planning. Zoning.

RE 325 **REAL ESTATE FINANCE (2)** Institutions, methods, instruments, and procedures involved in financing of R. E. Mortgagor and mortgagee's rights and obligations. Leases and finances. Insured and uninsured mortgages. Sources of financing. Mortgage banking. Federal influence. Prerequisites: RE 322, 324.

RE 326 **REAL ESTATE APPRAISAL (2)** Basic principles of R.E. value. Appraisal processes. Residential appraisal. Market value analysis for residential properties. Methodology, market comparison.

RE 327 **REAL ESTATE SEMINAR—SPECIAL PROJECTS (2)** Ethical procedures. Current issues and problems. Changing land use and misuse. Competition. Investments. Urban development and redevelopment. Prerequisites: RE 322, 323, 324, 325, 326.



Programs

Graduate Programs

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 Graduate Programs. Other graduate programs also have an undergraduate program. The complete course descriptions of such departments are listed in the undergraduate sections of this catalogue.

Hospital and Health Administration (HA)

Staff: DR. ARLINGHAUS, *chair*; DR. BOCKLET, *associate director*; DR. GEROWITZ, MR. ROGERS.

Assisted by: MS. ADLON, MR. ALVAREZ, MR. BECKMAN, MR. BURKE, DR. ELKUS, MS. EVERT, DR. EVERT, MR. FALBERG, MR. HALL, MR. MAGGART, DR. MEZINSKIS, DR. PHILIPPS, MS. SCHWALLIE, MR. TOMASZEWSKI

Business Administration course applicable in MHA program:

- BA 507 **CORPORATE FINANCE (3)** The basic principles and techniques used in the financial management of a business with special emphasis on the corporation.
- BA 514 **MANAGEMENT OF ORGANIZATIONS (3)** Techniques of planning, organizing, directing, and control in business with emphasis on the behavioral aspects.
- HA 510 **HEALTH CARE ORGANIZATION I (3)** An analysis of the current structure of the U.S. health care system with emphasis on the varied settings for health care delivery. The many biological, behavioral, societal, organizational, and environmental factors that affect health and the utilization of health resources are discussed. This course develops an understanding of the complexities, interactions, and impacts of all the above components of health care on the delivery system.
- HA 513 **MANAGEMENT ACCOUNTING FOR HEALTH CARE (3)** Accounting is the process of identifying, measuring, and communicating economic information. Management Accounting emphasizes the needs of managers within an organization for information on which to base decisions. An understanding of the basic cost accounting terms and techniques presented in this course will prepare non-financial managers to use accounting information to improve the efficiency and effectiveness of their use of the economic resources of health care organizations. It will also enable them to understand and apply more sophisticated techniques to further improve their managerial decision making.
- HA 515 **HEALTH CARE ORGANIZATION II (3)** This course provides an introduction to health care institutions as complex organizations. Emphasis is placed upon the following: the organization and operation of the functional elements; the institutional management process; objective setting and the information required to exercise management control; examines hospital and nursing home(s) departmental operations to enable the future practitioner to organize, plan and coordinate the efforts of each service so as to achieve maximum results in terms of effectiveness, efficiency and optimal patient care.

Hospital and Health Administration

- HA 533 **RESEARCH DESIGN & PROGRAM EVALUATION** (3) Introduction to the logic and skills of social research. This course employs fundamentals needed to do research in a health care environment. Topics include conceptualization and measurement, probability sampling, survey research, the objectives of evaluation, and the processing of quantitative data through the computer.
- HA 550 **HEALTH CARE LEGAL ASPECTS** (3) The purpose of this course is to provide the health care administration student with a framework for the understanding of the legal climate within which the health care institution operates. Emphasis is placed upon those legal concepts that bear most heavily upon the operation, planning, and decision-making activities of the health care administrator.
- HA 570 **DETERMINANTS AND MEASURES OF HEALTH, DISEASE & DISABILITY** (2) This course is designed to increase the student's knowledge of individual, social, and environmental determinants of health, disease and disability. It encompasses the study of what is health; how health is measured; the classifications of acute illness; and the variety of health promotion, and disease prevention interventions through the application of epidemiological methods.
- HA 610 **QUANTITATIVE TECHNIQUES FOR HEALTH ADMINISTRATORS** (3) This is an introductory course in Industrial Engineering in the health care field. Although a sound understanding of theoretical concepts is provided, the course is heavily oriented toward the practical application of industrial engineering methods.
- HA 620 **FINANCIAL MANAGEMENT OF HEALTH CARE ORGANIZATIONS** (3) This course is structured to accomplish three goals: the setting of basic financial principles in the context of the health care industry, both proprietary and not-for-profit; the development of a broader and deeper theoretical background in financial topics; and exposure to case study material in order to develop problem solving and decision making skills. Topics covered include ratio analysis, working capital management, cash budgeting, rate setting, strategic planning, capital budgeting, and capital financing.
- HA 660 **HUMAN RESOURCES MANAGEMENT IN HEALTH CARE ORGANIZATIONS** (3) This course focuses on the management of the human resource in the health care facility. It specifically addresses the subtopics of Employment, Wage Administration, Personnel Development, Benefits Administration, Personnel Research, Safety and Security, Communications and Collective Bargaining.
- HA 720 **ECONOMIC & POLITICAL ISSUES IN HEALTH CARE POLICY AND STRATEGIC MANAGEMENT** (3) This course is designed to explore the political and economic environment of the health care system and to examine the frameworks and research conclusions of economics and political science to informed public policy and institutional strategy formulation.
- HA 725 **THEORY IN PLANNING & STRATEGIC MANAGEMENT** (3) Students are exposed to the concepts and theories underlying the relationships between organizations and their environments, the processes available to assess environmental trends and learn to design and implement structures responsive to both external and internal demands.
- HA 800 **AGING IN OUR SOCIETY** (3) Examines the areas of Biology, Sociology, and Psychology of aging. Physiological changes related to aging; social gerontology and sociological perspectives on later life; and research methodologies used in the field of aging are all stressed.
- HA 810 **ADMINISTRATION OF AGENCIES SERVING THE AGED** (3) Critically examines and evaluates the range and relationship of community services, both existing and proposed, to meet the needs of the chronically ill patient and the requirements of an aging population.

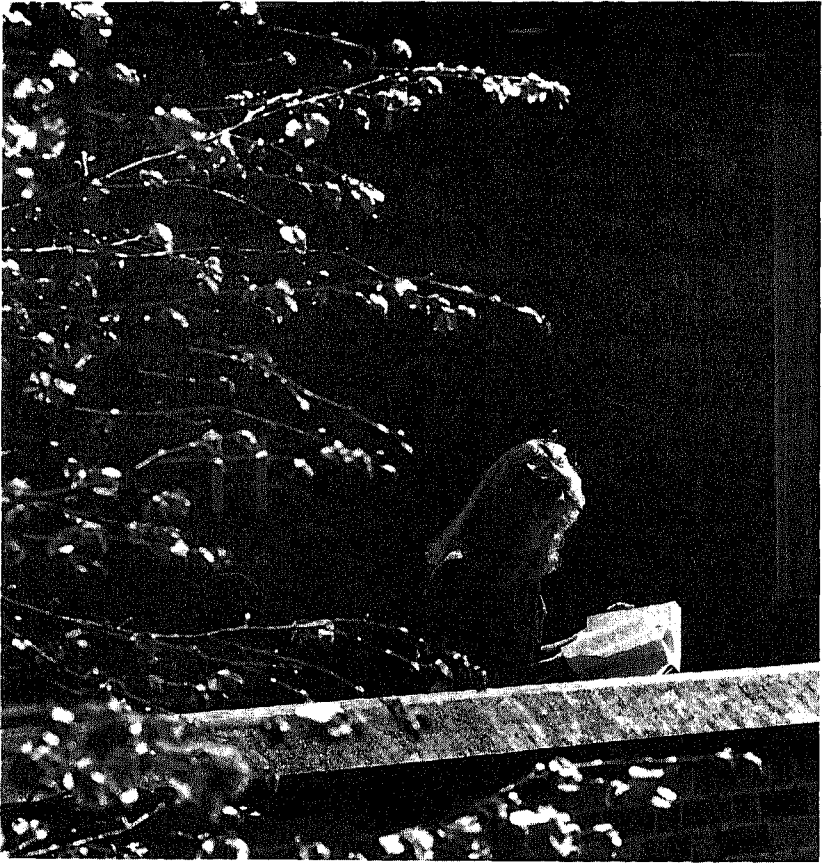
Hospital and Health Administration

- HA 815 **ADMINISTRATION OF INSTITUTIONS SERVING THE AGED** (3) Examines the role of the administrator in developing and administering responsive policies and programs to meet the needs of the chronically ill patient and the requirements of an aging population.
- HA 840 **MANAGEMENT OF AMBULATORY CARE PROGRAMS** (2) This course is designed to expose students to specific management issues and problems encountered in the management of a variety of ambulatory care settings under alternative financing and reimbursement systems.
- HA 895 **CAPSTONE SEMINAR** (3) This course is designed to integrate management issues in a variety of ambulatory care, long-term care, acute care, mental health settings. The concepts and techniques of organizational behavior, planning, finance, and control acquired in the core curriculum will be applied.

Administrative Residency

During the Administrative Residency, students will enroll in the following three practicum titles: (HA 690, 691, and 699). These three activities will take place during the minimum eight-month Administrative Residency.

- HA 690 **INSTITUTIONAL AND COMMUNITY ANALYSIS** (2) This practicum is designed to give the student resident first hand knowledge of operational problems of daily and continuing concern to management of health care institutions including: the governance process; the administrative structure and style; departmental support and maintenance functions; planning and financial management and human resources development.
- HA 691 **PRACTICUM IN EXECUTIVE DEVELOPMENT** (2) This practicum is designed to provide the student with the opportunity to observe executive role models and to provide the students with an opportunity to assess and develop their own management philosophies and styles.
- HA 699 **MASTER'S PROJECT** (6). Each MHA student is required to complete a master's project as a condition for graduation. The project usually reflects an aspect important to both the student and preceptor and must receive a final approval from the faculty advisor. The project may take the form of:
1. Hypothesis testing;
 2. Management studies;
 3. Competency Demonstrations or
 4. Case studies analyzing organizational policy or program implementation processes.



Graduate Programs

Administrative Officers

THOMAS H. HANNA, EdD
Associate Dean

CHARLES J. CUSICK, PhD
Dean, College of Arts and Sciences

MILTON A. PARTRIDGE, EdD
Executive Dean, College of Professional Studies; Chair, Department of Education

FRANCIS V. MASTRIANNA, PhD
Dean, College of Business Administration

PAULA R. KAISER, EdD
Assistant Dean, College of Business Administration
Director, MBA Program

NANCY S. TOM, MBA
Director of Admissions and Student Services

JAMES R. KAISER, MS
University Registrar

The Graduate Council

CHARLES J. CUSICK, PhD (Chair)

ALBERT F. ANDERSON, JR. EdD

NORMAN J. BARRY, PhD

MICHAEL E. ENDRES, PhD

SISTER MARY RUTH GRAF, RSM, PhD

RICHARD L. GRUBER, PhD

THOMAS H. HANNA, EdD
(Recording Secretary)

PAULA R. KAISER, EdD

W. MICHAEL NELSON III, PhD

MILTON A. PARTRIDGE, EdD

REVEREND M. DANIEL PRICE, SJ, PhD

JOHN C. ROTHWELL, MBA

Graduate Programs

GENERAL POLICIES

The policies listed here affect all graduate students. Some degree programs have special policies which are specified with individual program descriptions.

Classification of Students

Graduate students who have been admitted to Xavier University are designated as degree, provisional, or special students.

Degree students are those students officially accepted into candidacy for a graduate degree program. Students not in degree status are technically classified as special students until candidacy has been approved.

Provisional students are those students accepted with a deficiency of an academic or administrative nature which must be removed before they may apply for candidacy as a degree student.

Special students are those pursuing graduate courses without intent of completing a graduate degree or those who are taking coursework beyond a graduate degree. They may pursue these courses with profit without regard for degree requirements. Some departments require permission from the Chair if a special student wishes to take more than six semester hours of coursework.

Student Responsibility

It is the responsibility of the graduate student to become informed concerning all regulations and procedures required by the course of study being pursued. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation or asserts that information was not given by an advisor or other authority. Students should become familiar with the requirements for the degree being pursued and the offerings and requirements of the major department. The department Chair should be consulted concerning requirement deficiencies, the planning of a program, and special regulations.

It is to be noted that the Academic Vice President interprets Graduate Programs policies. Only the Academic Vice President or the Dean of the College concerned may waive requirements stated herein.

Admission

The Admissions Committee consists of the Dean of the College concerned, the Chair of the Department which the student seeks to enter, and the Associate Dean of Graduate Programs.

Application for admission to graduate studies is made by means of an application form which can be obtained upon request from the Registrar's Office or the Graduate Programs Office.

Applicants must also present evidence of having a bachelor's degree from an accredited institution and also provide official (sealed) transcripts from each college or university in which credit was obtained.

An applicant with a bachelor's degree from a non-accredited institution is not admitted to full graduate standing until the student has successfully completed at least six hours of graduate work with the required grades and has been accepted by the department which controls the program. Certain colleges and/or departments within the University do not accept students from institutions which have not received approval from a regional accrediting agency.

The Chair of the department of the student's major subject must decide on the student's preparation for graduate study in that department. After acceptance, an academic advisor will be assigned by the department Chair to direct the student's program. Graduate work in any department generally assumes that the student has completed the equivalent of an undergraduate major at Xavier University.

All applicants for admission to Graduate Programs (other than those seeking the MBA or MHA) will be required to take the Miller Analogies Test at Xavier University, or to provide an official report of their scores on that test. The score will aid in the admissions decision and in the guidance of the student. MBA applicants will be required to take the Graduate Management Admission Test or to have official test scores forwarded to the MBA Office. MHA students must have official test scores of the Graduate Record Examination (verbal, quantitative, and analytical scores only) forwarded to the Graduate Programs Office.

Graduate Programs

Notification of acceptance or rejection is sent to each applicant as soon as possible after receipt of the application, pertinent transcript(s), and test scores. Admission will be denied if the applicant's record of scholarship and test scores are not sufficiently distinguished, or if the undergraduate program is judged inadequate for advanced academic or professional study.

Seniors with exceptional academic standing who are near completion of their undergraduate requirements for the bachelor's degree may register for graduate work, providing that these courses are in excess of the requirements for the bachelor's degree.

Official acceptance for graduate study is good for a two-year period from the date of acceptance. If a student does not honor the acceptance within this period of time, the application and documents are destroyed unless the applicant requests that the documents be returned or sent elsewhere.

Any falsification of information on the application, transcripts, recommendations (where required), or test scores will be sufficient cause for disqualification for admission or dismissal if the individual has been admitted. All tuition and fees paid and graduate credit earned are forfeited upon such dismissal.

Students transferring from another university must be in good standing at the university or they will not be admitted to Xavier. Evidence of good standing must be produced upon request.

Xavier University, an equal opportunity educator and employer, is an academic community which is open to qualified persons regardless of age, sex, religion, handicap, or national origin.

Admission—International Students

International students must apply on special application forms available through the International Studies Office and must comply with all requirements for admission before formal acceptance will be granted and an I-20 form issued.

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 International Studies 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, and the GMAT score if application is for the MBA 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 "International Studies Office" 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.

Students accepted for study must obtain accident and sickness insurance coverage as a condition of admission, and must keep the insurance in force at all times while in student status at the University.

Xavier University does not place students in jobs for the purpose of practical training after graduation.

Academic Contract

Completion of the registration process on the part of the student and the University constitutes the formation of an Academic Contract binding on both parties. The terms of such contract include the express provisions, regulations, and academic and financial requirements contained in the University catalogue in effect at the time of registration and all the provisions, regulations, and requirements that can reasonably be implied from such express catalogue provisions. However, the University reserves the right to modify tuition and the amount or number of fees at the beginning of any academic year 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.

Graduate Programs

Course Load

Twelve semester hours of graduate level coursework is the normal full-time load for graduate students during a given semester. A minimum of five semester hours is considered full-time for each four, five, or six week summer session. Exceptions to this policy may be made by departmental chairs for specific purposes with the approval of the appropriate dean.

For students not fully employed, six semester hours each summer session is ordinarily the maximum student load permitted, though a student who wishes may take seven hours in a summer session without special permission. Permission to take more than seven hours must be obtained from one of the Deans. Ordinarily it will NOT be granted.

Fully employed students normally may not take more than seven semester hours of course work in the fall or spring semester, or four semester hours during regular summer sessions in which they are fully employed. Permission to exceed these limits must be granted by one of the Deans.

Special Courses

Special courses such as workshops, institutes, tutorials, independent study, and courses graded on a satisfactory/unsatisfactory basis are available and may be applied toward a graduate degree. However, a student's degree program may not include more than six semester hours of such special course work.

Candidacy

Upon completion of the sixth graduate hour, degree students must make application for candidacy. Approval by the Graduate Programs Office is based on satisfactory completion of six or more hours. Those thought unfit will be advised to discontinue their course work. Candidacy decisions will be deferred if appropriate admissions documents have not been submitted.

No more than five years may elapse between candidacy and completion of work for the degree. For the purposes of this requirement, the date of candidacy is defined to be the beginning of the student's seventh hour of work toward the degree.

Candidates for the master's degree who fail to complete all requirements within five years after admission to candidacy must be readmitted to candidacy by the appropriate college Dean before they can proceed.

A student whose degree candidacy has expired may appeal to the Associate Dean of Graduate Programs for permission to reactivate the candidacy on the basis of taking at least twelve semester hours of refresher course work as determined by an advisor. All degree requirements must be met within two years of the date of reactivation.

Course Numbers

Courses are numbered in the following way:

- 100 to 199 Lower division courses - not applicable for graduate credit.
- 200 to 499 Upper division courses, open to graduate students for graduate credit except where specified for undergraduate credit only. Some degree programs accept none or a limited number of such courses.
- 500 to 899 Courses for graduate credit only; open to graduate students only.

Xavier University operates on the Semester System.

Graduate Grading System

The following symbols are used in the evaluation of course work:

- A - Outstanding achievement, unusual intellectual ability and initiative.
- B - Good academic achievement (numerical acceptable graduate work in courses numbered below 500)
- C - Minimal graduate achievement (acceptable only in courses numbered 500 or above)
- S - Satisfactory
- D - Inferior, no graduate credit
- F - Failure

Graduate Programs

- U - Unsatisfactory
- Au - Audit, no credit
- I - Incomplete
- W - Withdrawal

To obtain credit, graduate students must do work of at least B quality in courses numbered 200 to 499, and of at least C quality in courses numbered 500 or higher.

The grade of S does not equate with letter grades and is transferable to other universities only upon their approval.

Clearance of Incompletes

Grades of I (Incomplete) must be cleared within thirty days after the last day of the semester in which the course was taken. This time limit may be extended only if the student requests an extension with an agreement specifying another date. The agreement must be signed by both the student and the professor, and must be submitted to the Graduate Programs Office within the thirty day limit. After the time limit for a change has passed, the grade becomes a permanent I (Incomplete). No grade may be altered under any circumstances after five years from the end of the term in which the course was taken.

Repetition of Courses

Courses completed in a student's undergraduate program or in another graduate program may not be repeated for graduate credit. Courses applied to another degree, either at Xavier or elsewhere, may not be applied to any Master's degree at Xavier.

Requirements

A minimum of 30 semester hours of graduate work is demanded for any master's degree. However, more than 30 graduate hours may be required in some programs.

Specific requirements of the Master's program are described in program brochures available upon request. Though advisory services are provided to assist all students, the student alone is responsible for following the procedures and completing the steps required for the program. Requirements of graduate programs both procedural and substantive, may be waived only by written request of the student and/or department Chair concerned and must have the written approval of the Dean of the appropriate college.

Distribution of the course requirements must be approved by the Chair of the department of the major subject. At least one-half of the courses must be in that department.

Character of the courses required is subject to the decision of the advisor. At least one-half of the hours of credit in the major subject and one-half the total number of hours toward the degree must be obtained in courses numbered 500 to 899, distinctly graduate courses.

A minimum quality point average of 2.5 in all courses applicable to a degree is required for graduation from all graduate degree programs. Some programs require a higher average for graduation.

Probation

One unsatisfactory grade (below C in courses in the 500 to 799 series, below B in courses in the 200 to 499 series) places a graduate student on probation; two such grades make the student ineligible to register in a degree program.

Dismissal

The Graduate Programs Office reserves the right to dismiss a student for reasons of poor scholarship, academic fraud, failure to remove academic probation, or misconduct.

Xavier University reserves the right to require a student to withdraw if, in the judgment of University officials, such action would be beneficial to the physical, mental, emotional, or moral best interests of the student or is considered necessary for the welfare of the University.

Such dismissal is prospective in nature and does not affect any terms of any past Academic Contract between the dismissed student and the University.

Graduate Programs

Class Attendance

Reasonable attendance at all class meetings of courses for which a student has registered is expected of students as a condition for the granting of academic credit. Lack of reasonable attendance as determined by the Graduate Council, the appropriate Dean, and faculty members concerned is reason for denial of credit for a course and possible course failure.

Examinations

Candidates for graduate degrees other than the MBA, the MA in Humanities, and certain MEd programs where examination waivers are permitted, 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 appropriate Dean to see that these examinations are given three weeks prior to the end of the final semester. A faculty member shall be appointed by the department Chair to act as Chair of the examining committee and be responsible for giving the examination. A student must pass other examinations required by the major department.

The matter for the examination shall be based primarily on the student's courses and the thesis, if a thesis is written. It is understood, however, that a candidate's general knowledge of the field must be found satisfactory by the examiners.

A student who fails to pass the final comprehensive examination may appeal to the appropriate departmental Chair to repeat the examination during a subsequent semester or session (only one examination is permitted during the summer). A second failure will result in termination of candidacy for a degree.

Advanced Standing from Other Universities

Six semester hours (or the equivalent) of graduate work completed at another accredited graduate school prior to initial admission to Xavier University may be transferred as Advanced Standing toward the MA, MS, MBA, MHA, MPA, or MEd degree. The permission of the department Chair concerned and the approval of the appropriate Dean is necessary. Only grades of A or B are acceptable for Advanced Standing, and the course work must have been completed on the university's main campus. Extension work and work done by correspondence or television are not normally 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 appropriate Dean. All Consortium course work must be approved by the student's department Chair before registration for the course work.

As a matter of policy, the Registrar does not enter graduate course work completed at other universities on a permanent record unless the course work applies toward a Xavier University advanced degree or pertains to certification recommended by the University.

Graduate Credit Transferable

Ordinarily no graduate credit completed at another university is transferable toward a graduate degree at Xavier once the student has begun a graduate program at Xavier.

Under certain extraordinary circumstances, advanced written approval for transfer of a course may be obtained from one of the appropriate Deans under such circumstances as:

1. When a student is permanently transferred to another city.
2. When directed by one of the appropriate Deans or the academic advisor for a specific purpose to take a course not available at Xavier.

No credit earned at another university after admission to a Xavier degree program will be accepted toward the Xavier graduate degree unless the course work has been approved *in advance* and *in writing* by the appropriate Dean or department Chair.

Only grades of A or B are acceptable in transfer.

Thesis

The thesis required for a degree should embody the results of the applicant's research in some problem of the major subject, and must at each stage be under the direction of an appropriate faculty member appointed by the Chair.

Before beginning work on the thesis, the student should secure from the Graduate Programs Office the form "Approval of Thesis Project" and also the sheet of instructions titled "Form and Mechanics for Writing Theses."

The student must submit three typed copies of the thesis after it has been formally approved and pay the current fee for the binding of the Library copy.

Application for Degree

Degrees are awarded three times each year: in August for those completing programs during the summer session, in December for those who complete the program in the fall semester, and in May if the student finishes during the spring semester. Diplomas are not available until the Commencement Exercises in May. Verification of completion of the degree will be provided by the Registrar's Office upon request prior to the May commencement for August and December graduates.

All students planning to complete requirements for graduate degrees must submit an *Application for Degree* form to the Graduate Programs Office within the first month of their final semester of work on a date published in the schedule of classes—in summers, prior to July 1. When the requirements for the degree are not completed at the time specified on the application, the student must reapply for a new degree granting date.

It is recommended that an appointment be made with the student's department Chair at the time the student registers for the final semester or summer session of work to make certain all degree requirements will have been met by the end of that semester or session.

The Registrar's Office will automatically eliminate from the graduation list the name of any student whose final grade report 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.

A student may obtain from the University only one graduate degree of the same type, e.g., MEd, MBA, MHA, although more than one Master of Arts or Master of Science degree may be obtained in more than one different subject matter field.

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 appropriate Dean, remediation may be required.

Retention of Graduate Records

As a matter of University policy, student files which include official transcripts from other colleges and universities, test scores, and pertinent correspondence, etc. are maintained for a period of fifteen years from the last day of the last semester or summer session the student was in attendance at the University. The entire file with the exception of the student's cumulative record is then destroyed. The cumulative record is a permanent University record.

Access to Graduate Student's Files and Release of Confidential Information

Education records are defined as those records, files, documents, and other materials which (1) contain information directly related to a student; and (2) are maintained by Xavier University.

The only information divulged openly without consent of a student by the Registrar's Office is Directory Information which is defined as the student's name, address, telephone listing, date and place of birth, major field of study, dates of attendance, degrees and awards received, and previous educational agencies and institutions attended by the student. *Should a student not wish directory information released, it is the student's responsibility to so notify the Registrar's Office.*

Graduate Programs

The Registrar's Office will release educational records without the student's consent in the following cases:

1. To state officials where required by a state law which was adopted prior to November 19, 1974.
2. To accrediting institutions.
3. To appropriate persons if, in the judgment of one of the appropriate 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 Programs Office. Closed recommendations are those given to the University on a confidential basis with reference to admission to graduate programs. Recommendations made after December 31, 1974 are closed only if the student has signed a waiver of access. All closed recommendations are removed from the student's file before the student is permitted to review it. A record of the review is placed within the file after the student has examined the contents. A student may see his or her file only under supervision of one of the members of the staff of the Graduate Programs Office.

If an individual outside the University complex wishes to review a student's file, the Graduate Programs Office will require that the student give a written release to the Graduate Programs 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 Programs Office a written release if it is desired that material from his or her file be sent outside the University.

Transcripts must be requested in writing by letter or by the Registrar's Office form for transcript requests.

No graduate transcript will be released until an official undergraduate transcript has been received showing the undergraduate degree and date of graduation, or in the case of transient students, a statement of transient status has been received from the other university.

Fee Payment

The Bursar's Office is responsible for the assessment and collection of tuition and fees payable to Xavier University. Inquiries should be directed to the Bursar's Office, Xavier University, 3800 Victory Parkway, Cincinnati, Ohio 45207. Telephone (513) 745-3435.

The University reviews its financial policies and procedures on a continual basis in order to operate in an efficient and effective manner. Policies contained in this section are those in effect as of publication date and subject to change as deemed necessary by the University.

All prior financial obligations to the University must be paid in full before registration will be permitted for any new semester or session. If payment or other arrangement is not made by the announced deadline, the Bursar has the option of cancelling the student's registration. University regulations prohibit the release of transcripts and diplomas for students whose accounts with the University are delinquent.

Payment Options

All student charges are due and payable at the time of registration. The University accepts payment in cash, check, Visa and Mastercard.

Full-time graduate students may enroll in the Xavier Ten-Month Payment Plan whereby payments for the Fall and Spring semesters can be spread equally over a ten-month period from June 1 through March 1. If payments to the plan are current, one half of the budgeted amount is applied against each semester's charges with any additional amount due payable at the time of registration. Detailed information is available from the Office of Student Financial Aid.

Deferments of payment are granted to students receiving certain types of financial assistance, such as grants, scholarships and loans, which have not yet been applied to their Bursar Accounts. Deferments may also be granted in "special" financial situations on a case-by-case basis by the Director of Financial Aid.

Graduate Programs

Any unpaid balance is subject to a late payment charge equal to one and one-half percent (1½%) per month of the amount due.

Advance Registration

Students who have signed up for courses during the pre-registration period for the Fall and Spring semesters will receive an estimated billing detailing charges for tuition, fees, housing and board in addition to anticipated financial aid arranged through the University's Office of Financial Aid as of that date. Payment is due approximately two (2) weeks prior to the first day of classes.

Payment must be made, or a deferment obtained as described above, by the due date to ensure a spot in the classes in which the student has pre-registered. If payment is not made, the student must attend Walk-In Registration.

Walk-in and Mail Registration

All students are required to pay 100% of tuition and fees at the time of registration with the exception of amounts covered by the Ten-Month Payment Plan or deferments as described above.

Tuition and Fees

Current tuition and fee information is contained in the Schedule of Tuition and Fees published each academic year by the University, and in the current Schedule of Classes. Individual course fees are assessed in some courses where extraordinary costs are involved.

Students taking graduate courses for audit are charged the full graduate tuition rate plus fees. Graduate students taking undergraduate courses for undergraduate credit are charged the undergraduate tuition rate.

Following is a description of selected fees:

Application/Matriculation Fees - payable once and designed to cover the costs of processing applications for enrollment and setting up of student records.

Student Services Fee - payable by all full-time and part-time graduate students, Main and Edgecliff campuses only. Entitles student to use of library, Health and Counseling Center, Career Planning services, reduced charge for membership to O'Connor Sports Center, and access to other student activities programs.

Parking Permit Fee - all vehicles using University parking lots are required to have valid parking permits. Permits valid evenings and weekends only are available at a reduced rate.

Graduation Fee - payable by all students who graduate, whether in person or *in absentia*.

Late Registration

Registration for all classes is required prior to the beginning of the first class of any semester or session. Late registration is permitted provided a student registers and enters a class prior to the beginning of the *second* class meeting. Class admission will *not* be permitted after the second class meeting has begun even though the student may have registered but failed to attend the first class meeting.

Change of Registration

Students properly registered who wish to change registration by dropping a class and adding another are assessed a change of registration fee. One fee is charged per total transaction at one time.

Withdrawal

Students who have officially registered for a class but decide to discontinue attendance, or students who wish to cancel registration before they have entered class must withdraw officially by completing a withdrawal form in the Registrar's Office or by informing the office in writing of their intent.

Graduate Programs

The same procedure applies when a student decides to drop one class to enter another.

Withdrawal from any or all courses being taken for graduate credit shall not be permitted after the last day of regular scheduled classes, that is after the beginning of the period scheduled by the University for final examinations.

Refunds

A refund of tuition may be claimed in the case of withdrawal or dismissal in the first portion of a term. Fees are not refundable. A student is subject to this refund policy whether or not any classes have been attended. Failing a course does not alter the financial obligation.

The date on which the withdrawal form or other written notice is received is used by the Registrar and the Bursar to determine possible tuition charges or refunds. No refunds may be granted without official withdrawal through the Registrar's Office. Ceasing to attend class or informing a professor of the intent to withdraw does not constitute official withdrawal. A claim for a tuition refund will not be honored by the University if more than one year has lapsed dating from 35 days after the beginning of each course in question.

The percentage of refund is based on the total tuition charged whether the student made full or partial payment at the time of registration. Thus a balance may be owed even though the student has withdrawn.

Students who do not withdraw officially through the Registrar's 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 Registrar's Office are also liable for the total tuition and fee charges for the semester or session.

Tuition will be refunded in full for courses cancelled by the University, involuntary call to active duty, death of a student, illness of the student of such duration or severity as confirmed by a physician that completion of the semester (or session) is precluded, and exceptional circumstances, upon approval of the University President. Fees are non-refundable.

In some instances, such as illness or serious injury, circumstances may justify the waiving of rules regarding refunds. Students have the privilege of appeal to the appropriate Dean when they feel special consideration is merited. Medical documentation of illness or injury is required with each appeal. A minimum administration charge of ten percent of the total tuition charge is applicable in every case where total refunds are authorized for good reason.

In the event a student is unable to complete a semester's coursework for whatever reason, either partial or full financial credit cannot be transferred to a subsequent semester if the student has attended classes beyond the 34th day of a semester or 10 days of a summer session. After prorated tuition has been assessed, however, any credit still due the student may be transferred to a subsequent semester or session. Extenuating circumstances have no bearing on this policy.

In case of expulsion or dismissal of a student or withdrawal on request of school authorities for other than academic reasons, the student will forfeit tuition, fees, and housing according to the withdrawal policy of the University.

A student who must drop a class because of excessive absence, lack of academic progress or similar cause, or who withdraws without notice, or is asked to withdraw or is expelled after due process, is not entitled to a refund.

Tuition refunds for the Fall and Spring semesters are computed according to the following schedule:

Academic Year (All classes)

Before the first class meeting	100% refund
First day of class and 6 days thereafter	90% refund
7 - 13 days after first class meeting	70% refund
14 - 20 days after first class meeting	50% refund
21 - 27 days after first class meeting	30% refund
28 - 34 days after first class meeting	10% refund
After 34 days	No refund

Tuition refunds for summer sessions are prorated based upon the official withdrawal date and the portion of the session elapsed. Contact the Bursar's Office for specific refund amounts.

Scholarships: Graduate Programs

Xavier University annually offers scholarships in most departments in which graduate programs are offered. A number of scholarships may be awarded in each department by the Graduate Scholarship Committee on recommendation of the Chair of the department concerned. Scholarships will be awarded only to those who have demonstrated academic excellence in their undergraduate work. Scholarships cover tuition only. They may be used only for courses applicable to the student's degree.

Awards will be subject to the following requirements and procedures:

1. Scholarships will be awarded only to students prepared to do full-time graduate study (usually 12 semester hours minimum per regular semester, 6 hours during a summer session, or as determined by the department Chair in certain departments). Students may not work at any job on a full-time basis while on scholarship status.
2. Only students who fully meet departmental requirements as outlined in the University Catalogue should apply.
3. Applications should be made by letter addressed to the Associate Dean of Graduate Programs, Xavier University, Cincinnati, Ohio 45207. An application for admission to graduate study must also be submitted with the scholarship letter if this has not previously been done.
4. Official transcripts of all previous college work should be forwarded to the Associate Dean of Graduate Programs (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 Associate Dean of Graduate Programs by the writers.
6. The appropriate standardized test must be taken and scores provided to the Graduate Programs Office. MBA students must take the GMAT; MHA students the GRE; others take the Miller Analogies Test.
7. Applications, letters, and transcripts for scholarships must be in the Graduate Programs Office not later than March 31 and applicants will be notified of the decision of the Graduate Scholarship Committee during the latter part of April of the academic year prior to the award.
8. The award is forfeited by failure to do superior work.
9. Under special circumstances, partial scholarships may be awarded.

Assistantships

Graduate assistantships are awarded annually in Psychology and Business Administration. Letters of application should be addressed to the Chair of the department concerned. Letters of recommendation from the Chair of the applicant's undergraduate department and one other professor should be sent directly to the Chair of the department at Xavier University. All admissions documents must be submitted to the Graduate Programs Office, except MBA applications which should be sent to the MBA Office.

All letters of application, recommendation, and transcripts should be in the hands of the Chair concerned not later than April 1, and successful applicants will be notified ordinarily in April by the Chair concerned.

Assistantships are also available in University dormitories. Further information may be obtained from the Director of Residence Life.

Veterans' Education

Xavier graduate programs have been approved by the Veterans' Administration for education training under all existing public laws. Requests for information should be addressed to the Director of Veterans' Educational Benefits, Xavier University, Cincinnati, Ohio 45207.

International Student Advisor

The International Studies Office of Xavier will assist graduate international students with such problems as adjustment to University life, requirements of the Immigration Service, and social matters. The department Chair handles the student's academic counseling.

Graduate Programs

Facilities for Study and Research

COMPUTER CENTER: The University Computer Center maintains a Time Sharing computer (Digital Equipment Corporation VAX 11/785), several micro-computers which are exclusively available to faculty and students of the University for classroom work or research, and has established a micro-lab in the College of Business Administration Building with fifteen IBM personal computers for class and student use.

LIBRARY: The University has a rapidly growing collection of over 300,000 volumes, more than 1,750 periodical subscriptions, and over 300,000 pieces of microform to serve and supplement the educational and research programs of the University. Consortium agreements have opened a number of local research libraries to Xavier University students.

Special services for graduate students include access to computerized data bases in various subject areas, and inter-library loan where Xavier students can obtain books and journal articles from libraries, both local and national.

Some departments of the University maintain library collections within their own buildings.

Graduate students wishing to keep books in the library may rent a locker on an assignment basis.

Health Services

Graduate students may use both the medical and counseling services of the Health and Counseling Center. Modest charges are made for any medicines used or injections administered. However, there is no additional charge to see the physicians, nurses, or counselors.

Additionally, an excellent student medical insurance plan is available through the Center for all graduate students enrolled for a minimum of six semester hours of credit.

Housing Arrangements

Graduate students usually make their own arrangements for obtaining housing accommodations. Dormitory accommodations are available to a limited number of graduate students each semester and are generally available to all graduate students during the summer sessions. Assistance in obtaining off-campus accommodations may be obtained by writing the Director of Residence Life, Office of the Vice President for Student Development.

Campus Parking

A limited amount of parking is available to graduate students on campus. The University cannot guarantee parking places. During the fall and spring semesters, parking stickers are required on cars parked on campus, and a parking fee is charged.

THE MASTER OF ARTS THE MASTER OF SCIENCE

The final goal of the MA and MS programs is that the student may come to possess a specialized knowledge of the candidate's chosen field and an intelligent appreciation of its place in the wide panorama of human thought.

The degree of MA or MS is awarded to the candidate who has demonstrated a capacity for further study or teaching by satisfactorily completing a program of graduate work designed to give these characteristics:

1. An understanding of the relations of the candidate's subject to allied subjects and to the synthesis of Christian culture, which is the basis of Western civilization.
2. A comprehensive knowledge of the broad field of learning in which the degree is conferred.
3. A specialized knowledge of a portion of that field.
4. Proven ability to do research in the special field of study.

General Requirements

In accordance with the above objectives the general requirements for the degrees are respectively:

1. Completion of such undergraduate prerequisites as will give assurance of the candidate's general educational background. Satisfactory completion of the Miller Analogies Test.
2. A reading knowledge of a foreign language or an approved substitute. This requirement does not apply to all degrees. See specific degree program for information.
3. Completion of a program consisting of at least twenty-four hours of integrated classroom study within the student's chosen field; an acceptable thesis of a research character for which six graduate credit hours are registered for and awarded; or at least thirty hours of integrated classroom study, and a substantial research paper specifically accepted by the department to satisfy this requirement.
4. Completion of a final oral comprehensive examination, if a thesis is written, or a written examination if a thesis is not included in the program and an extended research paper in one of the courses.

Specific Departmental Requirements

Within the general requirements, departments administering programs may add specific regulations. Candidates for degrees are urged to maintain close relationship with the Chair of their particular department.

THE MASTER OF ARTS—SECONDARY TEACHING

This program is designed for professional teachers intent upon excellence in their teaching field and excellence for their students.

The new degree program was initiated in the fall semester, 1985, and will be limited to the Cincinnati campus. Concentrations are offered in Biology, Chemistry, English, History, Languages (both modern and classical), Mathematics, and Physics.

The MA (Secondary Teaching) includes an 18 semester hour program in the teaching field, together with 12 semester hours in professional education. The 18 hours in the subject field includes some required courses and some electives. The field concentration will culminate in a 3 semester credit hour research project. Applicants are advised to see a counselor regarding specific requirements in the subject field. The 12 semester hours in professional education will include:

ED 512 ADVANCED STUDY: AMERICAN EDUCATIONAL HISTORY (3)

ED 513 PSYCHOLOGY FOR LEARNING AND TEACHING (3)

ED 514 CURRICULUM DESIGN AND INSTRUCTION (3)

ED 507 EDUCATIONAL RESEARCH (2)

Graduate Programs

ED 516 PROFESSIONAL SEMINAR: MA (SECONDARY TEACHING) (1)

Admissions requirements are as follows:

- An undergraduate 3.0 grade point average in the applicant's teaching field
- State certification in the applicant's field of concentration
- An interview
- Application and official transcript

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 Chair 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. A student selecting the thesis option must defend the thesis in a final oral examination.

Candidates for the MA 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 of Arts in History program at Xavier is designed to meet the needs of two types of students. First, the research MA with its emphasis on historiography and technique, gives the student who plans to work toward the PhD the background that he should have. The second type, the non-research MA 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. Each MA Candidate must, at the beginning of the program, determine an area of concentration and a minor field. The faculty who teach those areas become the MA Candidate's examiners.
2. Plan A—Research MA. The Candidate at the end of twenty four semester hours of course work will take a written examination on the area of concentration and the minor field. Both examiners will read the examination and grade it. At the completion of the thesis, the student must defend the thesis before the same examiners.
3. Plan B—30 hours MA. A major paper, written in a research seminar and based on primary and secondary sources which gives evidence of scholarly work, of having read significant literature on the topic, and of significant thought, must be submitted to the History Chair. The Candidate will then take a written exam on the area of concentration and the minor.
4. All students must complete half their course work in courses numbered 500 to 899. A student receiving a C grade in more than two courses will be dismissed from the MA program.
5. Students may take the comprehensive examinations twice.

THE MASTER OF ARTS—HUMANITIES

"THE HUMAN SEARCH FOR MEANING AND VALUE" is the integrating theme of the interdisciplinary humanities program. It is designed to provide intellectual stimulation, personal growth, and self-satisfaction for mature adults who believe that learning should be an exciting, life-long experience.

The program is intended especially for established adults who wish to continue their education on a part-time basis. Courses are available in the evening for the convenience of those with family or job responsibilities during the day. Initial courses in the program are structured so as to facilitate the return of those who have been away from academic life for some time.

The program is both focused and flexible. It requires the successful completion of thirty semester hours of graduate course work. Fifteen of these hours constitute the program's core. They provide extensive opportunities for reading, discussion, and critical analysis in the humanities: literature, history, philosophy/theology, and the fine arts. Some core courses are taught by faculty teams representing different disciplines.

Core Requirements

THE WESTERN INTELLECTUAL TRADITION I-IV (HU 501-504, 3 cr. hrs each); students must take one pair of these courses (either HU 501-502 or HU 503-504); the others may be taken as electives.

LANGUAGE OF THE HUMANITIES (HU 511, 3 cr. hrs).

THE QUEST FOR MEANING AND VALUES (3 cr. hrs.: satisfied by completing an approved course in either philosophy or theology).

LITERATURE AND THE HUMAN IMAGINATION (3 cr. hrs.: satisfied by taking an approved course in literature).

Through elective courses (15 semester hours chosen from among approved courses in the humanities, liberal arts, and social sciences), students may tailor the program to their individual interests. Provision is made for independent study opportunities and for short-term as well as semester-length courses.

With its orientation toward personal growth and self-satisfaction, the Master of Arts in Humanities is clearly not a research program. There is no foreign language requirement or formal research thesis. Each student must, however, prepare an acceptable humanities essay or alternative project at the conclusion of the course of study.

Admission is open to any interested person with a bachelor's degree and a good academic record, regardless of undergraduate major. There are no other prerequisites. Graduate Programs admissions procedures and specific requirements must be followed. In addition, each prospective student must submit to the Director a letter which (a) describes the applicant's career since receiving the bachelor's degree, and (b) indicates the applicant's reasons for seeking admission to the program. Applicants are strongly encouraged to meet with the Director prior to registering for courses.

THE MASTER OF ARTS—PSYCHOLOGY

The degree of Master of Arts in Psychology is designed to prepare students for continuing their graduate studies to the doctoral level and to prepare students for employment in the areas of clinical, counseling, and industrial psychology.

Program of studies

1. To insure comprehensiveness in their program, all candidates must include in their program each of the following courses designed, in their whole, to provide integrated coverage of the graduate field of psychology. These courses are:

PS 463, **THEORIES OF PERSONALITY I & II** (6; 3 each semester).

PS 464

PS 501 **CONTEMPORARY THEORY IN PSYCHOLOGY** (3).

Graduate Programs

PS 502 **SEMINAR: PHILOSOPHICAL ISSUES IN PSYCHOLOGY** (3)

PS 505 **PROFESSIONAL PROBLEMS IN PSYCHOLOGY** (1)

PS 511 **ADVANCED STATISTICS** (3)

PS 521 **ADVANCED EXPERIMENTAL PSYCHOLOGY** (3)

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 13 credit hours selected from the following courses: Learning and Motivation, Social Psychology, Psychological and Achievement Tests, Individual Tests of Intelligence, Early Cognitive Development, Individual Study. Practicum in Experimental Psychology.

Clinical Psychology

A minimum of 13 credit hours selected from the following courses: Learning and Motivation, Psychopathology, Introduction to Psychological Treatment Methods, Individual Tests of Intelligence, Counseling Principles and Techniques, Personality Assessment Techniques I and II, Behavior Therapy, Counseling and Psychotherapy. Practicum in Clinical Psychology is required.

Counseling Psychology

A minimum of 13 credit hours selected from the following courses: Learning and Motivation, Developmental Psychology, Principles of Guidance, Psychological and Achievement Tests, Counseling Principles and Techniques, Individual Tests of Intelligence, Behavior Therapy, Counseling and Psychotherapy. Practicum in Counseling is required.

Industrial Psychology

A minimum of 13 credit hours selected from the following courses: Marketing Research, Personnel Selection and Development, Learning and Motivation, Individual Tests of Intelligence, Psychology of Job Stress, Motivation and Behavior in Organizations, Psychological and Achievement Tests. Practicum in Industrial Psychology is required.

3. As a climax to his program, each student must register for PS 699, Master's Thesis, 6 credit hours. The student will prepare an acceptable thesis which will be defended in the student's final oral examination.
4. The degree of Master of Arts in Psychology will be awarded only to candidates who have demonstrated a reading knowledge of a foreign language or demonstrated a proficiency in a computer language (FORTRAN programming) and, in final oral examination, have both successfully defended their thesis and successfully demonstrated their knowledge of the general field of psychology.

Admission

- a. A 2.8 overall undergraduate and a 3.0 average in all psychology courses. This average is computed by assigning quality points of 4 for each credit hour of A.
- b. Satisfactory performance on the MAT (Miller Analogies Test). Score required prior to acceptance.
- c. A minimum of 18 undergraduate credit hours in psychology which must include general psychology, introductory statistics, and experimental psychology with laboratory. Courses in personality theory, developmental and abnormal psychology are helpful. Also courses in biological science and college mathematics are recommended as a preparation for graduate studies. In addition, a course surveying psychological testing is very useful for Clinical, Counseling, and Industrial candidates.
- 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 Department of Psychology the completed application form for admission to Graduate Programs and special application form for admission to the Department of Psychology.
- b. Submit official transcript of previous college work.
- c. Submit to the Graduate Programs Office report of MAT score or arrange with the Department of Psychology for examination.
- d. At times, a personal interview may be required by the Admissions Committee. The student will be notified by the Department of Psychology and arrangements for the interview will be made at that time.

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 MA 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 (500-800) level. To insure comprehensiveness in their program, all students will be required to take Christian Tradition and the Task of Understanding, and in addition, one course each in Historical Theology, Scripture, Ethics, and Systematics. The remaining five courses are free theology electives and may be chosen from the above areas as well as from other areas such as Spirituality, Religious Education, etc.

After completion of the first six hours of graduate course work, each student's ability to complete the program will be evaluated on the basis of work done in the courses taken and the student admitted to candidacy or not. Application for candidacy is made by form.

Some students may substitute a thesis for two of their elective courses. This must be discussed and agreed to with an advisor prior to completion of the first 12 hours of graduate course work. The thesis will be read by its director and two additional readers. 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. A student selecting the thesis option must also defend the thesis in a final oral examination.

There is no foreign language requirement for the degree.

Graduate Programs

THE MASTER OF SCIENCE—CRIMINAL JUSTICE

The Master of Science in Criminal Justice program is multi-disciplinary and designed for those persons who wish to search for new answers and address new questions, be part of an ever-developing knowledge-base, adjust attitudes, or sharpen the skills required to address the complex issues in the criminal justice system in general in a free society.

The degree of Master of Science in Criminal Justice will be awarded only to candidates who have successfully completed 36 credit hours and who have passed an extensive written examination on the general field of criminal justice as covered by the required courses, and successfully completed internship and research non- classroom courses (CJ 592 and CJ 584 respectively).

A minimum of 36 credit hours is required for the degree of Master of Science in Criminal Justice. These will be distributed as follows:

BASIC REQUIRED COURSES:

- CJ 506 **CRIMINOLOGY: THEORY AND PRACTICE** (3) Theories of crime causality, systemic reaction to crime complex, critical evaluation of contemporary methodologies.
- CJ 520 **SOCIOLOGY OF CRIME AND DELINQUENCY** (3) Social foundations of the criminal justice system; social causation of and response to crime.
- CJ 542 **CRIMINAL JUSTICE ADMINISTRATION** (3) Organizational and management theories and practices in criminal justice settings.
- CJ 583 **RESEARCH IN CRIMINAL JUSTICE: PLANNING AND INFORMATION SYSTEMS** (3) Social and political science research designs applied to policy formation, implementation and evaluation.
- CJ 584 **RESEARCH ESSAY: SEMINAR** (3) Completion of an acceptable research paper. Direction of design and execution in classroom setting.
- CJ 592 **INTERNSHIP** (3) Supervised experience in criminal justice placement, non- classroom program of 300 clock hours under academic supervision.

OTHER REQUIRED COURSES:

- CJ 511 **LAW AND JUSTICE IN AMERICA** (3) Presentation of legal issues in criminal justice including rights of criminal justice workers and offenders, pertinent Supreme Court decisions and case law, interpretation of lawyer's role in the system, etc.
- CJ 521 **JUVENILE JUSTICE IN A CHANGING SOCIETY** (3).
- CJ 507* **LAW ENFORCEMENT, COURTS AND CORRECTIONS: SEMINAR** (3)

* Optional for students with undergraduate Criminal Justice approved coursework; required for all others.

ELECTIVES

Students will be guided by their advisor in appropriate selection of criminal justice courses to bring the total number of hours for the degree to 36.

THE MASTER OF EDUCATION

The Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators actually engaged in school work. It has one basic aim: stimulating better teaching wherever the influence of the successful candidate may extend, whether it be in an individual classroom, an entire school or a whole school system.

Accordingly, this degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within the particular sphere of his influence by satisfactorily completing a program of graduate work designed to give these characteristics:

Graduate Programs

1. Broad knowledge of the principles and techniques of education in modern society.
2. Specific knowledge of one major area of the field of education.
3. Essential understandings and skills necessary for intelligent consumption of educational research.

Requirements for the degree of Master of Education are specified with certain basic considerations in mind:

1. Sufficient flexibility is necessary to care adequately for the particular needs of the in-service educator who enrolls for the degree.
2. Graduate programs must be so planned as to insure the student's attaining a comprehensive knowledge of professional theory and practice in the principal areas of the field; a detailed knowledge of at least one major area of specialization—for high school teachers this area may be an appropriate academic field; and capability in the skills and knowledge necessary for intelligent comprehension and use of educational research.

To insure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs each of four general survey courses (or alternate courses as indicated) designed, in their whole, to provide integrated coverage of the broad field of education. These courses are:

ED 501 PHILOSOPHY OF EDUCATION (3) (Montessori students take ED 641 **MONTESORI EDUCATION: PHILOSOPHICAL APPROACH** *in lieu of 501.*) **ED 502 HISTORY OF AMERICAN EDUCATION** may be taken in place of ED 501.

ED 503 ADVANCED EDUCATIONAL PSYCHOLOGY (3) (Montessori students may substitute ED/PS 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD** *for ED 503 as appropriate.*)

ED 505 EDUCATIONAL ADMINISTRATION (3) (Students in guidance must take ED 537 **ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES (2)** *in lieu of 505.* Students concentrating in educational administration must take ED 550 **INTRODUCTION TO EDUCATIONAL ADMINISTRATION; (2)** *in lieu of 505.*)

ED 507 EDUCATIONAL RESEARCH (3)

To insure their mastery of a particular area of education, candidates must include in their programs a concentration of at least 12 credit hours in one of the following areas of concentration:

Administration, guidance, elementary education, secondary education, physical education, learning and behavior disorders, educable mentally retarded, the moderately, severely, and profoundly retarded, Montessori education, computer science, reading specialist, instructional service specialist, educational media specialist, personnel training, art, biology, business, chemistry, classics, communication arts, English, history-political science, mathematics, French, German, Spanish, philosophy, psychology, theology, and music.

Those interested in the MEd program may obtain brochures covering specifics of concentrations from the Graduate Programs Office. Separate folders are available for concentrations in educational administration, Montessori education, reading specialist, special education areas, educational media, personnel training, and computer science.

A minimum of thirty hours is required for the degree of Master of Education. These shall be distributed as follows:

1. General surveys in education, 12 credit hours.
2. Concentration, 12 credit hours.*
3. Pertinent electives, six credit hours.

* Certain concentrations may require more than 12 semester hours, particularly where state certification requirements are involved.

The degree will be awarded only to candidates who have passed an extensive written examination covering their particular field of concentration (administration, guidance, etc.) or over the four general survey courses in education if they have concentrated in a subject matter field or in elementary or secondary education. Students in guidance or educational media may apply for a

Graduate Programs

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 or she 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 who are preparing themselves for increasing executive responsibilities. The degree also assists those in technical fields and the professions who find that the combination of their previous academic background and the MBA degree is extremely valuable in the current job market.

Accordingly, this degree is awarded to the candidate who has demonstrated capacity for leadership in the field of business by satisfactorily completing a graduate program designed to give him the following characteristics:

1. Broad knowledge of the principles and techniques of business administration;
2. Specific knowledge of one of the major phases of business administration;
3. Essential understandings and skills necessary for intelligent consumption of research in the fields of business.

Students meeting grade requirements may be admitted to the MBA program on one of two bases:

1. Undergraduate degree in business administration which included the Level I courses (or equivalents) listed below.
2. Undergraduate non-business degree. Course deficiencies may be removed by an extended graduate program, including the following one semester Level I courses: BA 501 Economic Analysis (4 cr. hrs.); BA 502 Mathematics for Management (3 cr. hrs.); BA 503 Financial Accounting (3 cr. hrs.); BA 504 Management Operations (3 cr. hrs.); BA 505 Marketing Concepts (3 cr. hrs.); BA 506 Managerial Statistics (3 cr. hrs.); BA 507 Corporate Finance (3 cr. hrs.); BA 508 Managerial Computer Applications; or their equivalents, as appropriate. Level I courses are generally open only to graduate students with undergraduate deficiencies.

MBA degree applicants must take the Graduate Management Admission Test. Applicants need to arrange to take the test prior to admission. Test application forms may be obtained from Xavier's MBA Office or by writing directly to Educational Testing Service, Box 966, Princeton, NJ 08541. Only persons holding the PhD, MD, or JD degrees are exempt from the GMAT.

To insure comprehensiveness in their programs for the degree of Master of Business Administration, all candidates must include in their programs each of six general survey courses designed, in their whole, to provide integrated coverage of the broad business field. These courses are:

- BA 511 ECONOMIC ENVIRONMENT
- BA 512 QUANTITATIVE BUSINESS METHODS
- BA 513 MANAGERIAL ACCOUNTING
- BA 514 ORGANIZATIONAL BEHAVIOR
- BA 515 MARKETING STRATEGY
- BA 516 MANAGERIAL FINANCE

To insure their mastery of a particular area of business administration, candidates will ordinarily include in their programs a concentration of at least 9 credit hours in one of the following areas of concentration:

Accounting
Advanced Business Economics
Finance
Industrial Management
Management Information Systems

Management
Marketing
Multinational Business
Personnel
Quantitative Methods
Taxation

As a capstone to the MBA program, the candidates must include the policy course BA 699. This will assist them in marshalling their knowledge of the business field in the solution of specific problems. A student must have completed all of the core courses before taking this course.

A minimum of 33 Level II graduate hours is required for the MBA. 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 Business Policy and Strategy (BA 699);
4. Three hours in a business elective.

A 3.00 ("B") grade point average in Level II courses is required for graduation. An unlimited number of "C" grades is acceptable as long as the overall average is 3.00 or better. A student may repeat courses or enroll in additional courses to satisfy the 3.00 requirement provided all course requirements for the degree are met. The 3.00 average does not apply to Level I courses which are not counted in the overall average. An unlimited number of "C" grades is acceptable in Level I courses.

EXECUTIVE MBA PROGRAM

The Executive MBA Program provides the opportunity for upper level managers and executives to sharpen their managerial skills and broaden their perspectives while maintaining their current positions in the respective organizations. The ultimate objective of the program is to prepare participants for increasing responsibilities in general management and executive positions. This is accomplished through a learning process which expands their awareness of modern analytical, administrative and decision making methods. This program is designed to deepen their conceptual understanding of behavioral, technological, and environmental forces which will impact their work and organizations in the years ahead.

Information regarding the Executive MBA Program may be obtained from the Director at (513) 745-3412.

Graduate Programs

**MASTER OF HOSPITAL AND
HEALTH ADMINISTRATION**

The Xavier University graduate program in Hospital and Health Administration is organized to prepare individuals for careers in health services management. The general mission of the program is to improve the health status and well-being of individuals and populations by increasing the effectiveness and efficiency of the financing, organization and delivery of health care services. Academic work and field experiences are designed to develop the conceptual, analytical, and interpersonal skills necessary to respond to this mission.

Students are accepted for admission to the program from a variety of academic backgrounds and work experiences. An ideal background would include exposure to the social and administrative sciences, statistics, accounting, political science, and the communicative arts.

Prerequisites and Foundations

Students are expected to have completed the following prerequisites prior to matriculation:

Accounting	3 credit hours
Social Sciences	3 credit hours

In addition, it is recommended that all students have a foundation in the following courses:

Basic Statistics	3 credit hours
Basic Economics.....	3 credit hours

Curriculum

The course of study covers two calendar years including 16 months of didactic study and an 8 month administrative residency under the preceptorship of senior management in a health care organization.

To fulfill the requirements for the MHA degree, a total of 60 semester graduate credit hours must be completed, 50 hours of course work and 10 hours of practicum and master's project. Of the 50 hours, 38 hours are required course work. The 12 hours of electives may be taken as a concentration in one of the component areas or as general studies selecting courses from several components:

I. Organizational Behavior

- *Organizational Behavior
- *Human Resources Administration in Health Care Organizations
- *Theory in Planning and Strategic Management
Administrative Issues

II. Economic/Political/Social Issues

- *Health Care Legal Aspects
- *Economic & Political Issues in Health Care Policy & Strategic Management
Medical-Moral Issues
Risk Management
Politics in Health Care

III. Quantitative Techniques

- *Quantitative Techniques for Health Administration
- *Research Design and Program Evaluation

IV. Finance

- *Management Accounting for Health Care
- *Corporate Finance
- *Financial Management of Health Care Organizations

V. Systems & Settings

- *Health Care Organization I
- *Health Care Organization II
- *Determinants and Measures of Health, Disease and Disability

Long-Term Care Administration
Management of Ambulatory Care Programs
Rural Health Care Delivery
Material Management

VI. Integration and Synthesis

- *Capstone Seminar
- *Practicum in Executive Development
- *Institutional and Community Analysis for Health Care Management (Administrative Residency)
- *Master's Project

* Required Course

Electives are available in business administration, public administration, and through the Greater Cincinnati Consortium of Colleges and Universities.

Long-Term Care Administration

This program is recognized by the Ohio State Board of Examiners of Nursing Home Administrators as having fulfilled the requirements of sections (A)(5) and (A)(6) of Rule 4751-1-05 of the Ohio Administrative Code (OAC). As such, candidates completing this program may sit for the licensure exam immediately after receipt of the degree.

This is a special concentration in long-term care administration. The candidate is required to complete the 38 hours of required course work as designated. However, within the 12 hours of electives, 9 hours must concentrate in long-term care studies.

Long-Term Care Administration (9 cr hrs)

- Aging in our Society 3 cr hrs.
- Administration of Agencies Serving the Aged 3 cr hrs.
- Administration of Institutions Serving the Aged 3 cr hrs.

The Residency in Long-Term Care is a specially designed practicum.

Written and oral comprehensive evaluations may be conducted toward the end of the didactic portion of the program. These examinations are designed to give the faculty a better appreciation of the needs of the candidate as he or she proceeds in graduate studies.

Administrative Residency

Before receiving the degree of Master of Hospital and Health Administration (MHA), all students must complete an administrative residency in a health care organization, 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 health care facility in which the residency is performed.

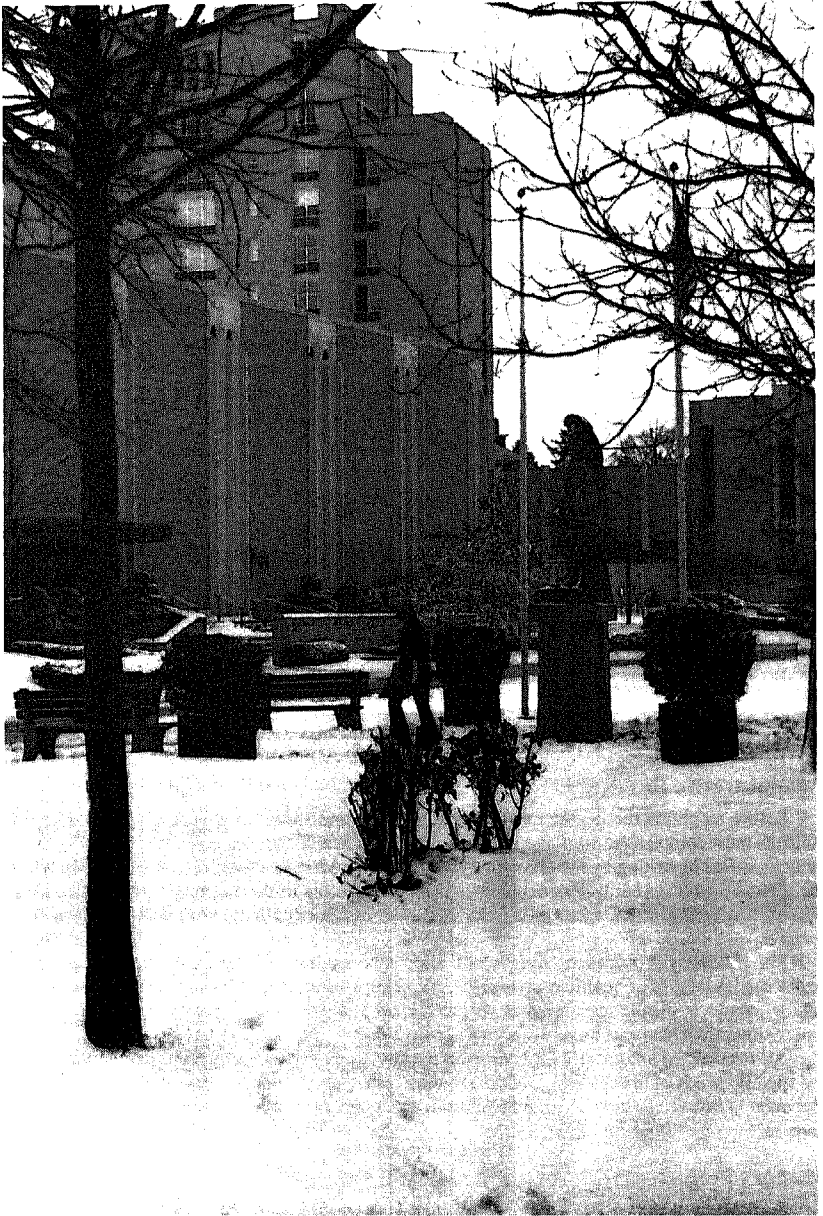
The residency provides a setting which allows the student to integrate theory and practice under the leadership of qualified preceptors. Typically, the student works directly with the preceptor, conducts management studies, departmental analysis, and observes the organization's external relationships and its impacts on the community.

All residencies are specifically designed to provide an environment for learning which fits the specific needs of the student. Example: Long-Term Care Administration students will spend the major portion of time in a nursing home, extended care facility, and independent living centers.

Master's Project

Each MHA student is required to complete a Master's project as a condition for graduation. The project usually reflects an aspect of health systems management of interest to both the student and preceptor with a final approval from the faculty advisor.

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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The date mentioned in parentheses is the date of first appointment.

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- St. Louis University (1818)**
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Mobile, Alabama 36608
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Cincinnati, Ohio 45207
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Worcester, Massachusetts 01610
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Santa Clara, California 95053
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Boston, Massachusetts 02167
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Seattle, Washington 98122
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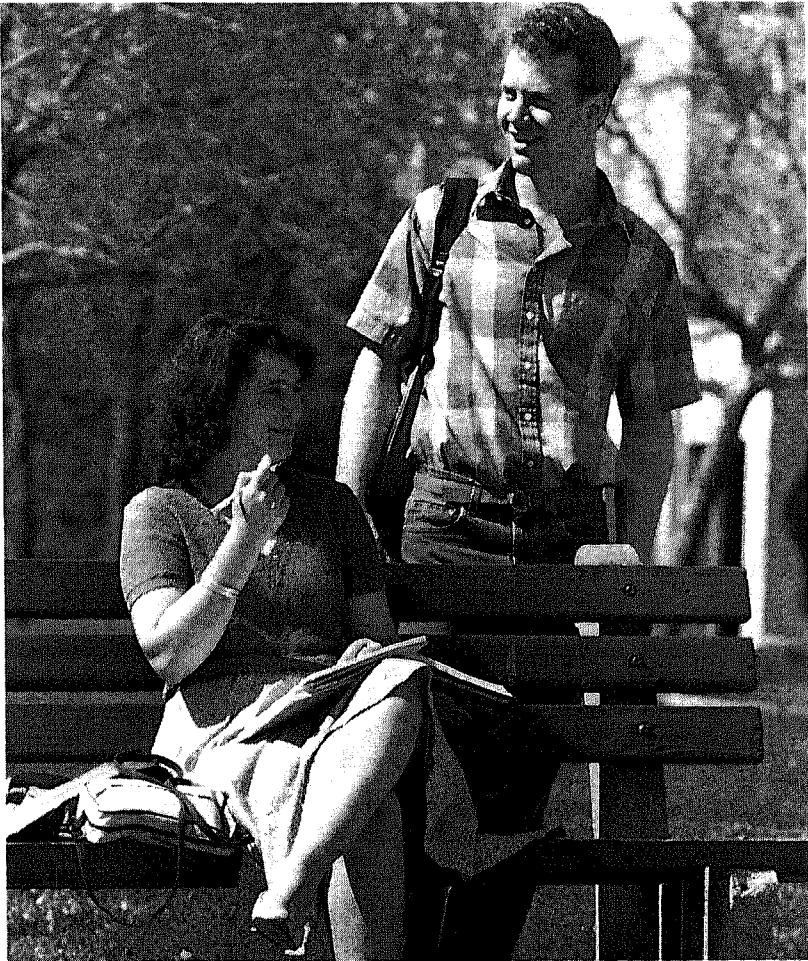
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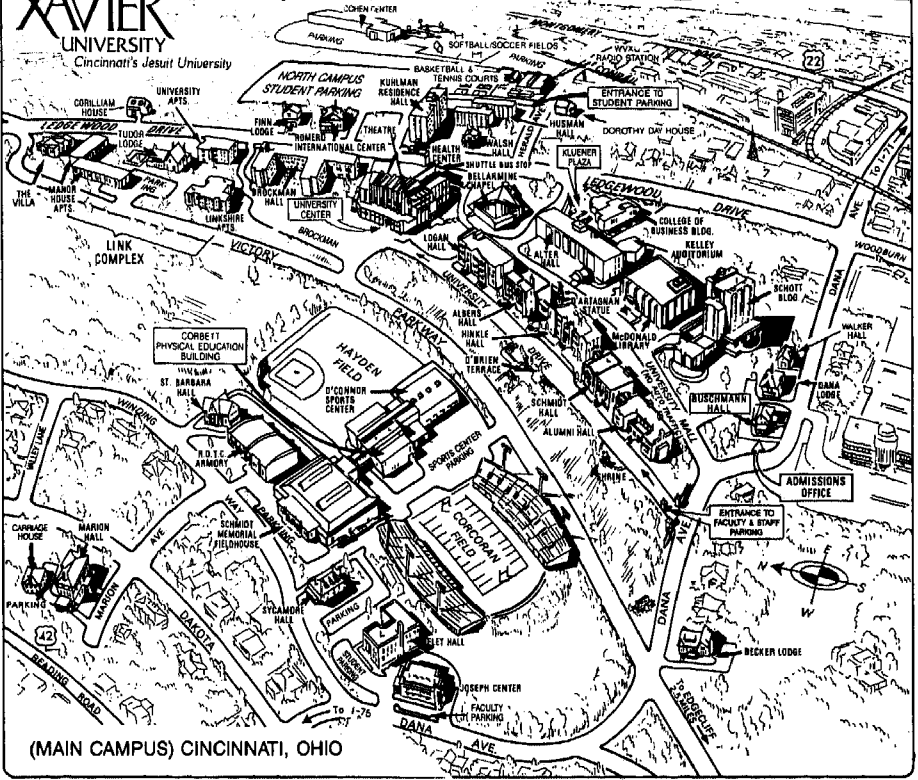
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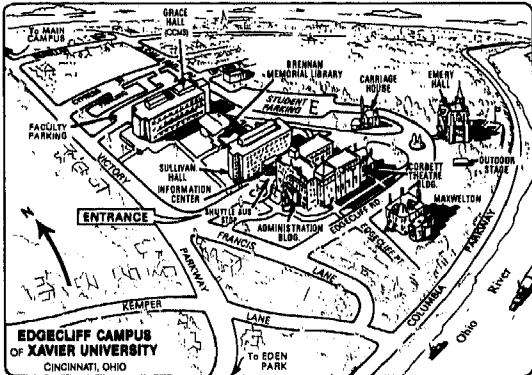
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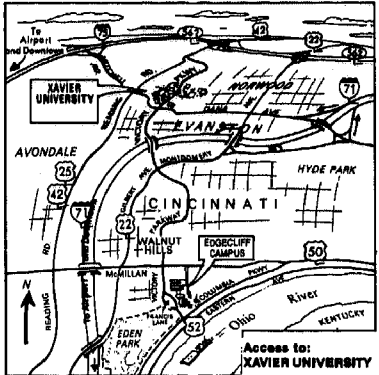
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