

1990

# 1990-1992 Xavier University College of Arts and Sciences, College of Business Administration, College of Social Sciences Course Catalog

Xavier University, Cincinnati, OH

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# XAVIER UNIVERSITY



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C A T A L O G



# Xavier University

Cincinnati's Jesuit University



*Catalog 1990-92*

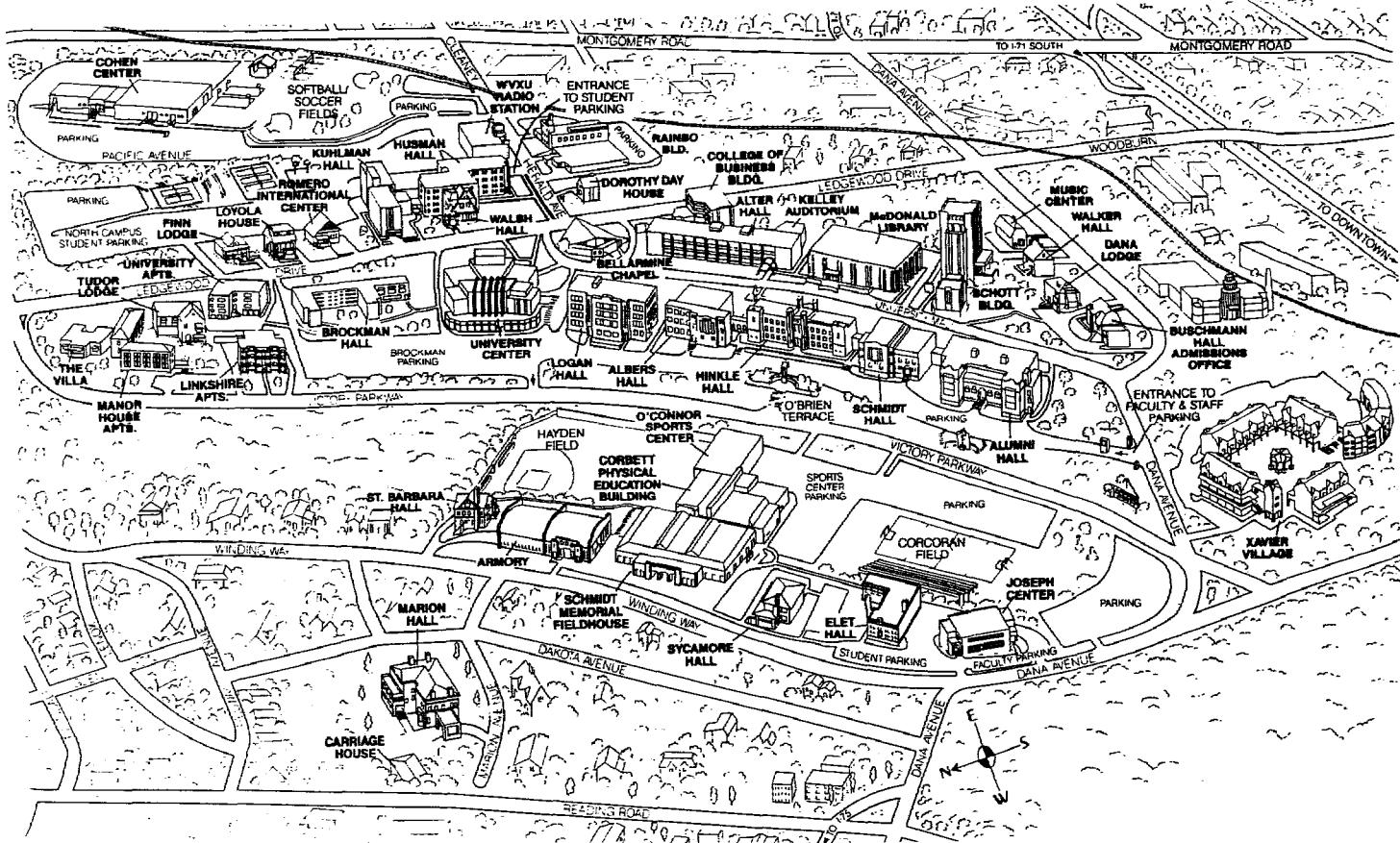
**College of Arts and Sciences**

**College of Business Administration**

**College of Social Sciences**

**3800 Victory Parkway, Cincinnati, Ohio 45207**

**(513) 745-3000**

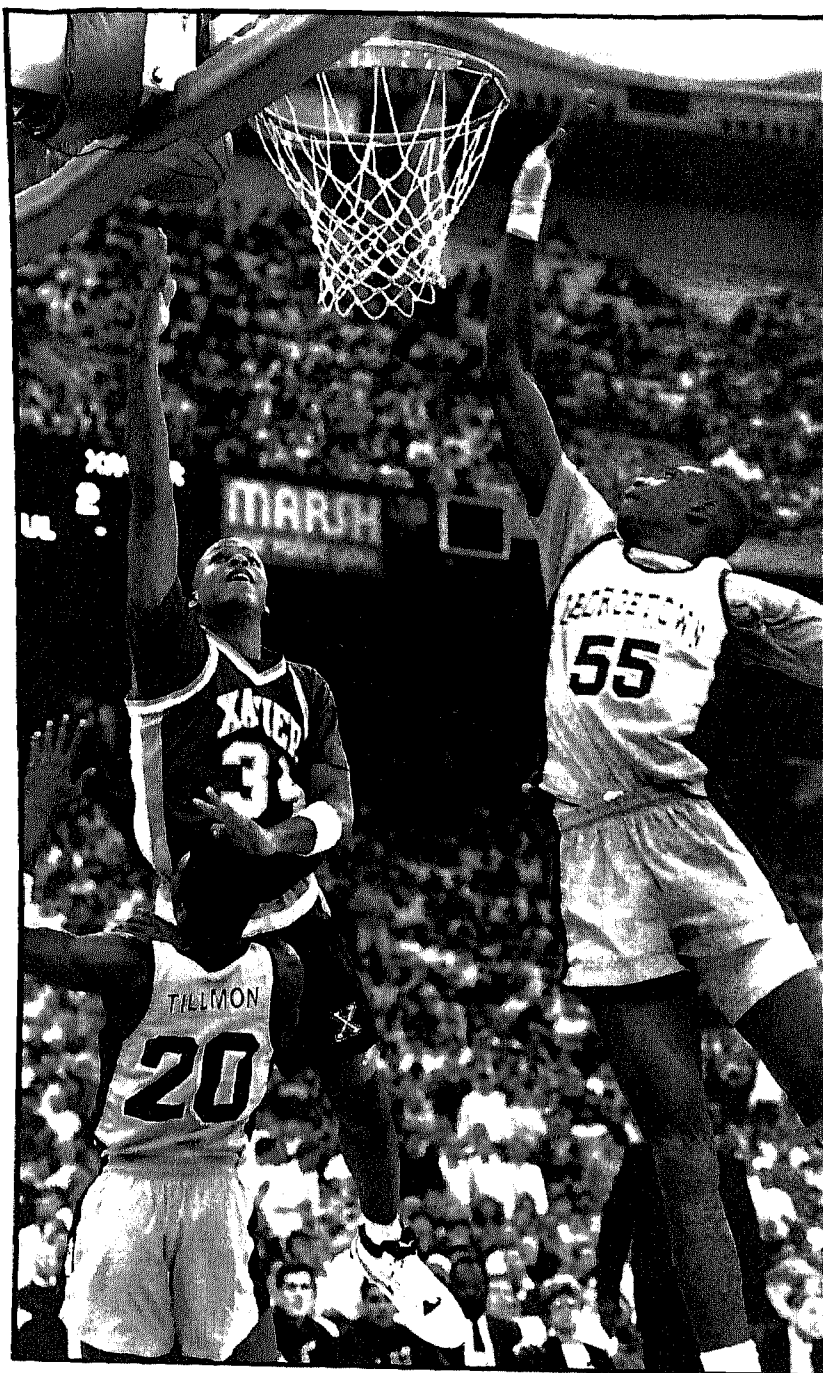


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## UNIVERSITY CALENDAR 1990-1991

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

### Fall Semester, 1990

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Registration Schedule	
Aug. 30, Thursday	Graduate students only
Aug. 31, Friday	All students
Sept. 1, Saturday	Graduate students and students registering through the Center for Adult and Part-time Students
Sept. 3, Monday	Labor Day, Registration closed for the day
Sept. 4, Tuesday	All students
<hr/>	
Sept. 5, Wednesday	Classes begin
<hr/>	
Sept. 11, Tuesday	Last day for late registration or changes in registration
<hr/>	
Oct. 12, Friday	Faculty Retreat, classes do not meet
<hr/>	
Oct. 26, Friday	Final deadline to apply for December graduation - undergraduate and graduate students
<hr/>	
Oct. 29, Monday	Final deadline for reporting mid-semester grades for all undergraduate students
<hr/>	
Nov. 14, Wednesday through Nov. 20, Tuesday	Spring preregistration for all students
<hr/>	
Nov. 20, Tuesday	Thanksgiving holiday begins after last class
<hr/>	
Nov. 26, Monday	Classes resume Final date for withdrawal without failure from full-term courses, undergraduate students
<hr/>	
Dec. 1, Saturday	M.Ed. Comprehensive Examinations 1:30 p.m.
<hr/>	
Dec. 7, Friday	Final date for undergraduate students to apply for May graduation
<hr/>	
Dec. 14, Friday	Reception for December graduates
<hr/>	
Dec. 16, Sunday through Dec. 22, Saturday	Final Examinations
<hr/>	
Dec. 22, Saturday	End of Fall Semester after last semester examination

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## Spring Semester, 1991

Registration Schedule	
Jan. 11, Friday	Graduate students and CAPS students
Jan. 12, Saturday	Graduate students and CAPS students
Jan. 14, Monday	Graduate students and CAPS students
Jan. 15, Tuesday	All students
Jan. 16, Wednesday	Classes begin
Jan. 21, Monday	Martin Luther King Holiday, classes do not meet
Jan. 22, Tuesday	Last day for late registration or changes in registration
Jan. 30, Wednesday	Monday classes meet
Feb. 7, Thursday	Final date for graduate students to apply for May graduation
Feb. 20, Wednesday	Winter Holiday begins after last class
Feb. 25, Monday	Classes resume
Mar. 1, Friday	Final deadline to apply for participation in the ceremony at May Commencement (This is NOT the application for degree, which is due 12/7/90 for undergraduate and 2/7/91 for graduate students.)
Mar. 11, Monday	Final deadline for reporting mid-semester grades for all undergraduate students
Mar. 23, Saturday	Spring-Easter Vacation begins after last class
Apr. 1, Monday	Monday once-a-week classes meet, except labs
Apr. 2, Tuesday	All classes resume
Apr. 5, Friday through Apr. 11, Thursday	Fall preregistration for all students
Apr. 15, Monday	Final date for withdrawal without failure from full-term courses, undergraduate students
Apr. 20, Saturday	Honors Convocation, 10:00 a.m.
Apr. 27, Saturday	M.Ed. Comprehensive Examinations 1:30 pm
May 5, Sunday through May 11, Saturday	Final Examinations
May 11, Saturday	End of Spring Semester after last semester examination
May 18, Saturday	Commencement

## Summer Sessions, 1991

Summer classes are scheduled between May and late August. See summer bulletin for details. Bulletins are available March 1st. You may call the Summer Sessions Office [513 745-3601] after January 1st to reserve a copy.

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## UNIVERSITY CALENDAR 1991-1992

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### Fall Semester, 1991

Registration Schedule	
Aug. 29, Thursday	Graduate students only
Aug. 30, Friday	All students
Aug. 31, Saturday	Graduate students and CAPS students
Sept. 2, Monday	Labor Day, Registration closed for the day
Sept. 3, Tuesday	All students
Sept. 4, Wednesday	Classes begin
Sept. 10, Tuesday	Last day for late registration or changes in registration
Oct. 18, Friday	Faculty Retreat, classes do not meet
Oct. 25, Friday	Final deadline to apply for December graduation - undergraduate and graduate students
Oct. 28, Monday	Final deadline for reporting mid-semester grades for all undergraduate students
Nov. 13, Wednesday through Nov. 19, Tuesday	Spring preregistration for all students
Nov. 25, Monday	Final date for withdrawal without failure from full-term courses, undergraduate students
Nov. 26, Tuesday	Thanksgiving holiday begins after last class
Dec. 2, Monday	Classes resume
Dec. 6, Friday	Final date for undergraduate students to apply for May graduation
Dec. 7, Saturday	M.Ed. Comprehensive Examinations 1:30 pm
Dec. 13, Friday	Reception for December graduates
Dec. 15, Sunday through Dec. 21, Saturday	Final Examinations
Dec. 21, Saturday	End of Fall Semester after last semester examination

## Spring Semester, 1992

Registration Schedule	
Jan. 10, Friday	Graduate students and CAPS students
Jan. 11, Saturday	Graduate students and CAPS students
Jan. 13, Monday	Graduate students and CAPS students
Jan. 14, Tuesday	All students
Jan. 15, Wednesday	Classes begin
Jan. 20, Monday	Martin Luther King Holiday, university closed
Jan. 21, Tuesday	Last day for late registration or changes in registration
Jan. 29, Wednesday	Monday classes meet
Feb. 6, Thursday	Final date for graduate students to apply for May graduation
Mar. 2, Monday	Final deadline to apply for participation in the ceremony at May Commencement (This is NOT the application for degree, which is due 12/6/91 for undergraduate and 2/6/92 for graduate students.
Mar. 9, Monday	Final deadline for reporting mid-semester grades for all undergraduate students
Mar. 7, Saturday	Spring Vacation begins after last class
Mar. 16, Monday	Classes resume
Apr. 1, Wednesday through Apr. 7, Tuesday	Fall preregistration for all students
Apr. 13, Monday	Final date for withdrawal without failure from full-term courses, undergraduate students
Apr. 15, Wednesday	Easter Vacation begins after last class
Apr. 20, Monday	Monday once-a-week classes meet, except labs
Apr. 21, Tuesday	All classes resume
Apr. 25, Saturday	Honors Convocation, 10:00 a.m. M.Ed. Comprehensive Examination 1:30 pm
May 3, Sunday through May 9, Saturday	Final Examinations
May 9, Saturday	End of Spring Semester after last semester examination
May 16, Saturday	Commencement Exercises

## Summer Sessions, 1992

Summer classes are scheduled between May and late August. See summer bulletin for details. Bulletins are available March 1st. You may call the Summer Sessions Office [513 745-3601] after January 1st to reserve a copy.

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

St. Xavier College moved to its present 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.

In 1980 Xavier acquired Edgecliff College. The programs at Edgecliff were integrated with those at Xavier and, by 1987, all faculty, staff and students were moved onto the enlarged Xavier campus.

## Xavier University: Mission Statement

Xavier's mission is to educate. Our essential activity is the interaction of students and faculty in an educational experience characterized by critical thinking and articulate expression with special attention given to ethical issues and values.

Xavier is a Catholic institution in the Jesuit tradition, an urban university firmly rooted in the principles and convictions of the Judeo-Christian tradition and in the best ideals of the American heritage.

Xavier is an educational community dedicated to the pursuit of knowledge, to the orderly discussion of issues confronting society and, as would befit an American institution grounded in the humanities and sciences, Xavier is committed unreservedly to open and free inquiry.

Xavier, while primarily an undergraduate institution emphasizing the liberal arts, is also committed to providing graduate and professional education in areas of its demonstrated competence and where it meets a particular need of society, especially of Xavier's regional constituency. Faculty members, moreover, are strongly encouraged to engage in research outside the classroom in order to maintain the professional standing of the institution.

With attention to the student as an individual, Jesuit education seeks to develop: intellectual skills for both a full life in the human community and service in the Kingdom of God; critical attention to the underlying philosophical and theological implications of issues; a world view that is oriented to responsible action and recognizes the intrinsic value of the natural and human values; an understanding and communication of moral and religious values through personal concern and

## **The University**

lived witness, as well as by precept and instruction; and a sense of the whole person--body, mind, and spirit.

In keeping with this Jesuit tradition, Xavier believes that religious insights are complementary to the intellectual life, and that a continuing synthesis of the Christian perspective with all other forms of human knowledge is conducive to wisdom and understanding. Xavier shares in the worldwide Jesuit commitment to a creative and intelligent engagement with questions of peace and justice.

Xavier aims to provide all students with a supportive learning environment which offers opportunities for identifying personal needs, setting goals, and developing recreational and aesthetic interests and skills for daily living and leadership. The self-understanding and interpersonal development that result are vital corollaries to a student's academic development.

Xavier believes that these goals can be achieved only through academic programs of high quality that are served by a faculty devoted primarily to excellence in teaching, are nurtured by scholarship and research and are supported by a broad range of university ministry and student life programs.

## **Jesuit Education**

The university 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 civilization while developing and expanding one's own vast potential as a human person.

It is the conviction that each person possesses the unusual and distinctively human powers to think, to reflect on 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.

## **College of Arts and Sciences**

The College of Arts and Sciences, Xavier's largest and oldest college, accepts the primary responsibility for the liberal education of students at the university. The college also provides systematic concentrations of courses in major fields in order to give a student an understanding in depth of a single academic discipline.

To accomplish these objectives, the college offers majors in the departments of Art, Classics, Communication Arts, English, History, Modern Languages, Music, Philosophy, Theology, Biology, Chemistry, Mathematics and Computer Science, and Physics. At the graduate level, master degree programs are offered in English, history, humanities, and theology.

## **College of Business Administration**

The university established the College of Business Administration on September 1, 1961 to prepare the student in the area of business to be more qualified to accept a position of responsibility and leadership in the business community.

The college offers an associate degree in business administration, bachelor degrees in the departments of Accounting and Law, Economics & Industrial Relations, Finance, Information and Decision Science, Management, and Marketing, and a Master of Business Administration.

## College of Social Sciences

Xavier's newest college, the College of Social Sciences, was formed in 1988, the result of a reorganization of the academic division of the university. The programs in this college have a special focus directed toward society and its needs in the areas of education, health, political life, and community service.

Undergraduate degree programs are offered in the departments of Criminal Justice, Education, Nursing, Political Science and Sociology, Psychology and Social Work. Master degree programs are available in Criminal Justice, Education, Hospital and Health Administration, and Psychology.

## Center for Adult and Part-time Students

The purpose of this center is to admit and advise students, mainly adults, who wish to pursue an undergraduate degree primarily in the evening and on weekends. The center also provides advising to non-degree students. Undergraduate students who are less than 22 years of age must be admitted through the Office of Admissions, but may use CAPS for advising after admission.

## Consortium Opportunities

Xavier is a member of the Greater Cincinnati Consortium of Colleges and Universities, a consortium of 13 institutions of higher education 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. The consortium schools are:

The Art Academy of Cincinnati	College of Mt. St. Joseph	Thomas More College
The Athenaeum of Ohio	Hebrew Union College/Jewish	University of Cincinnati
Chatfield College	Institute of Religion	Wilmington College
Cincinnati Bible College	Miami University	Xavier University
Cincinnati Technical College	Northern Kentucky University	

## McDonald Memorial Library

The McDonald Memorial Library provides collections and services to support the university's curricula. The collection numbers over 350,000 volumes of books and journals, over 450,000 pieces of microform, and approximately 1,500 journal subscriptions. The library has a collection of approximately 4,500 phonograph records, 250 video cassettes, 250 audio cassettes, and a small collection of compact discs. There is also a browsing collection which contains books of general interest.

The reference collection, located on the first floor, contains general and specialized research materials, such as dictionaries, encyclopedias, indexes, bibliographies, business services, and computerized data bases. The library's online catalog can be used to locate materials.

Reference librarians are available to assist students with their research. Computerized data bases and interlibrary loan services allow students access to materials not owned by Xavier. Xavier students may borrow books and use the facilities and services of area libraries participating in the Greater Cincinnati Library Consortium (GCLC).

## 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, the Lodge collection of approximately 10,000 items includes curriculum materials, a children's literature collection, multi-media instructional materials, modern language audio cassettes, computer hardware and software, and audio visual and production equipment.

The staff at Lodge Learning Lab is available to assist students with use of the collection, producing instructional materials, and the operation of classroom equipment.

## **The University**

### **Academic Computing**

The Xavier University Academic Computing Center provides a range of services designed to meet a variety of user needs in the areas of instruction and research. Time-sharing computing is available through the DEC VAX/VMS 11/785 mainframe system. The central processor has a speed of one million instructions per second, 32 megabytes of memory, and currently has 2.25 gigabytes of storage space. Access to the time-sharing system over the ISN Network is available from terminals in several clusters across campus including four computing labs, Brockman residence hall, McDonald Library, Lodge Learning Laboratory, and the Cohen Center. Access is also available through the use of a modem and dialup telephone lines. World-wide communications through the BITNET network connects users at Xavier with other university users at well over three thousand computer nodes.

Microcomputer systems are also provided through the facilities of the academic computing laboratories. Currently available are the IBM PS/2 and PC, Macintosh, and Apple. File transfers between these systems and the VAX are possible through communications packages.

Printing capabilities in the academic computing labs include laser, letter quality, and dot matrix printers. Laser copies can be generated via the VAX, IBM PS/2, and Macintosh systems.

The Academic Computing Center routinely offers mini-courses on selected time-sharing and microcomputer topics of interest to both students and faculty. Topics are determined by user demand and new software acquisitions.

### **Xavier Art Gallery**

Xavier Art Gallery is a public program of the Department of Art. The gallery provides opportunities for Xavier's community and public to view visual art on campus. Exhibitions which follow the university calendar of fall and spring semesters promote the work of professional artists, art department students and other visual programs deemed to be of interest to the gallery's public.

### **Study Programs Abroad**

Xavier University believes that study abroad is a valuable part of a liberal education. Therefore the university, through the Committee on International Studies, offers a wide variety of programs for summer study in countries such as Austria, England, France, Mexico, and Spain. Through Xavier's cooperation with other Jesuit universities, students may spend a semester or a year studying in a foreign country. For detailed information contact the Office of International Studies.

Xavier University awards several Fredin Memorial Scholarships annually allowing the recipients to study for a calendar year at the University of Paris (Sorbonne). For further information contact the Associate Dean of the College of Arts & Sciences.

### **Accreditation**

The University is accredited by the North Central Association of Colleges and Schools and the Ohio Board of Regents as a degree-granting institution, and is approved by the Department of Education of the State of Ohio for teacher certification. It is also approved by the American Chemical Society for its training in chemistry, accredited by the National League of Nursing for its nursing degree completion program, accredited by the Council on Social Work Education for its undergraduate social work program, and by the Committee on Allied Health Education and Accreditation for its radiologic technology program. The graduate program in hospital and health administration is accredited by the Accrediting Commission on Education for Health Services Administration.

### **Institutional Memberships**

The University maintains memberships in these educational and learned organizations:

Academy of Criminal Justice Sciences; Academy of Political Science; American Academy of Political and Social Science; American Art Therapy Association; American Assembly of

Collegiate Schools of Business; American Association for State and Local History; American Association of Collegiate Registrars and Admissions Officers; American Catholic Philosophical Association; American College Personnel Administrators; American Correctional Association; American Council on Consumer Interests; American Council on Education; American Historical Association; American Library Association; American Mathematical Society; American Montessori Society; American Political Science Association; Association for Computer Machinery; Association for Continuing Higher Education; Association of Catholic Colleges & Universities; Association of College Unions--International; Association of Independent Colleges and Universities of Ohio; Association of Jesuit Colleges and Universities; Association of University Programs in Health Administration; Canadian Historical Association; Canadian Sociology and Anthropology Association; Center for the Study of Democratic Institutions; College and University Personnel Association; The College Board; College English Association of Ohio; Council for Advancement and Support of Education; Council of Graduate Schools; Economic History Association; Handweavers Guild of America; Institute of International Education; International Business School Computer User's Group; International Reading Association; Jesuit Conference of Nursing Programs; Midwest Alliance In Nursing; Midwestern Association of Graduate Schools; Midwestern Collegiate Conference; National Art Education Association; National Association for Ethnic Studies; National Association of College Admission Counselors; National Association of College and University Business Officers; National Association of Elementary School Principals; National Association of Foreign Student Advisors; National Association of Independent Colleges and Universities; National Association of Secondary School Principals; National Association of Student Financial Aid Administrators; National Association of Student Personnel Administrators; National Catholic Educational Association; National Collegiate Athletic Association; National Council for the Social Studies; National Council of Schools of Professional Psychology; National Wildlife Federation; North American Association of Summer Schools; North Central Conference of Summer Sessions; Ohio Academy of Sciences; Ohio Assembly of Deans & Directors of Baccalaureate and Higher Degree Programs; Ohio Association of College Admission Counselors; Ohio Association of Colleges for Teacher Education; Ohio Association of Private Colleges for Teacher Education; Ohio Association of Collegiate Registrars and Admissions Officers; Ohio Biological Survey; Royal Historical Society; Society for the Study of the Multi-Ethnic Literature of the U.S. Melus; Teachers of English to Speakers of Other Languages; The Tuition Exchange.





## 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 programs, 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 society, was established at Xavier University in 1962. The purpose of this organization is the promotion of scholarly activity in mathematics among 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.* The purposes of the Xavier University chapter of Sigma Pi Sigma, national physics honor society, 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.

*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 professor of military science. Some of the criteria for selection to membership are leadership qualities, military and academic grades, and relative standing in the Cadet Battalion. Members of the order are awarded a red fourragere to be worn as part of the uniform.

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

*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, and leadership.

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



# UNDERGRADUATE ADMISSIONS

## Application and Requirements for Admission

Students applying to Xavier University must do the following:

1. Submit an "Application for Admission" form, which can be obtained from the Office of Admissions or from the Center for Adult and Part-time Students (CAPS). The completed form should be returned to the appropriate office with the application fee. This fee is not refundable nor applicable to any account.
2. Request the high school (and post-secondary institutions attended) to forward directly to the Office of Admissions or CAPS a complete and official transcript of the academic record.
3. Request scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) to be forwarded to the Office of Admissions or CAPS.

Credentials received for admission become the property of the university. All credentials should be on file at least one month before the first day of classes, although admission for a given year may close earlier than that. Check with the Office of Admissions for anticipated closing date.

Candidates for admission must graduate from high school with a minimum average grade of "C+". Some applicants whose averages are lower may be considered at the discretion of the Committee on Admissions. In addition to the high school average, evidence of a student's potential for success in college studies is judged by the rank in class, strength of college preparatory curriculum, ACT or SAT scores, the comments offered on recommendations, college transcripts, and for adults, life and work experiences. Xavier seeks to enroll students who have the following preparation:

English, 4 units	Physical/Natural Sciences, 2 units
Mathematics, 3 units	Foreign Language, 2 units
Social Sciences, 3 units	Electives, 2+ units

## Admission Through the Center for Adult and Part-Time Students (CAPS)

The purpose of this center is to admit and advise students, mainly adults, who wish to pursue an undergraduate degree. The center also provides advising to non-degree students. Undergraduate students who are less than 22 years of age must be admitted through the Office of Admissions, but may use CAPS for advising after admission.

## Provisional Admission

Provisional admission may be granted by the Director of Admissions or the Director of CAPS 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 canceled. Tuition paid will be refunded, but no fees can be refunded and room and board charges will be prorated.

## High School Equivalence

The G.E.D. (General Educational Development) examination is recognized in individual cases as a replacement for the high school diploma. Applicants should have copies of their scores and of the certificate forwarded directly to the Office of Admissions, or if they are applying to the Center for Adult and Part-time Students (CAPS), to that office.

## Advanced Placement and Credit by Examination

Xavier University participates in the Advanced Placement Program of the College Entrance Examination Board. Ordinarily, a score of "3" or better in an Advanced Placement examination will earn the student an advanced placement with credit in that discipline. Xavier also participates

## **Undergraduate Admissions**

on a limited basis in the College Level Examination Program (CLEP) of the College Entrance Examination Board.

Entering students will also 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 must be sent to Xavier's Admissions Office.

## **International Baccalaureate Policy**

Xavier University grants college credit for classes taken through a recognized International Baccalaureate (IB) program. Students can earn credit for up to three successfully completed Higher Level classes in which a score of "4" or better is achieved on the appropriate IB examination. For more information contact the Admissions Office.

## **Additional Enrollment Options**

Xavier University has for many years offered academically talented high school students the opportunity to enroll in undergraduate courses on a space available basis. This opportunity includes the following options:

- The Summer Junior Program is offered to greater Cincinnati area high school students who have completed their junior year and must have a grade point average of at least "B". All courses are taught on the Xavier campus in regular summer sessions. Students may choose from over twenty course offerings.
- Xavier University participates in the Post-Secondary Enrollment Option which allow superior junior and senior high school students to attend the university during the regular academic year as non-degree students. Call the Admissions Office for information and admissions criteria.

## **Summer Academic Bridge Program**

This program is designed to help selected freshmen "bridge the gap" in their academic backgrounds through counseling, tutoring, and appropriate course selection. The program provides assistance to twenty-five to thirty incoming freshmen who need further academic work to help them improve their English, mathematics, and reading skills. These students are selected by Xavier's Admissions Committee. The selection is based on the student's high school GPA's, SAT and/or ACT scores, comments and recommendations of high school counselors, and evidence of a strong motivation for success in college.

Failure to complete any course successfully will require the student to repeat it in the fall term, and in the case of mathematics or English, prevent the student from taking an advanced mathematics course or English 101 until the failed course has been successfully completed.

## **Readmission**

An applicant who was previously registered at Xavier and has not been registered at Xavier for a semester is required to complete a Readmission Application Form. Applicants who want credit for coursework taken at another university during their absence from Xavier must present a transcript promptly. See the entry under Transfer Students below for time limitations on the acceptance of coursework. Students suspended for poor scholarship from the university or from other institutions will not be eligible for readmission before the lapse of at least one semester. In all cases, readmission and the conditions for such will be determined finally by the dean of the appropriate college. All prior financial obligations must be settled with the Bursar's Office prior to readmission.

## **Transfer Students**

Xavier University accepts qualified students from other accredited institutions of higher education. In addition to the credentials required of all freshmen applicants, transfer students must

forward to the Office of Admissions or CAPS 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.

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 accredited institutions, and the conformity of the work to the degree program for which the student wishes to register. If a student transfers without a degree, credit is given for all academic courses (except co-op and life experience) in which a grade of "C" or better has been received. The grade of "D" will not be accepted unless the "D" is in a sequential course in a subject for which a higher grade was obtained in a subsequent course. Students who transfer into Xavier with an associate degree will have all academic courses accepted (except co-op and life experience) which were accepted for the associate degree, even grades of "D", provided that the overall quality point average is at least 2.0

The transfer credit, but not the grade, is recorded on the student's transcript. The grades are not computed in the student's Xavier grade point average. At least one-half of the course requirements of the major and the last 30 semester hours must be completed at Xavier University. At least 60 hours must be earned in four-year degree programs. Xavier's undergraduate colleges will accept course work successfully completed within the last ten years; credit over ten years old will not be accepted if the course in question belongs to the student's major or, in the case of business students, pertains to the "business core". Credits over ten years old which pertain to the university core curriculum or are free electives will usually be accepted.

Transfer students must meet the on-campus housing requirement. See Student Services section.

### International Students

Students from foreign countries who wish to apply to Xavier University must do the following before formal acceptance will be granted and a Form I-20 will be issued:

1. Submit an application form.
2. Submit 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.
3. 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--score of 525), the Michigan English Test, or a test from another accredited agency. Successful completion of the Xavier University program of English as a Second Language DOES NOT guarantee admission to the university.
4. 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;
5. Submit an official medical examination report.

All documents should be received by the Admissions Office at least three months prior to the intended term of enrollment.

International students who have been admitted to the University must meet the University's on-campus housing requirement. See Student Services section.

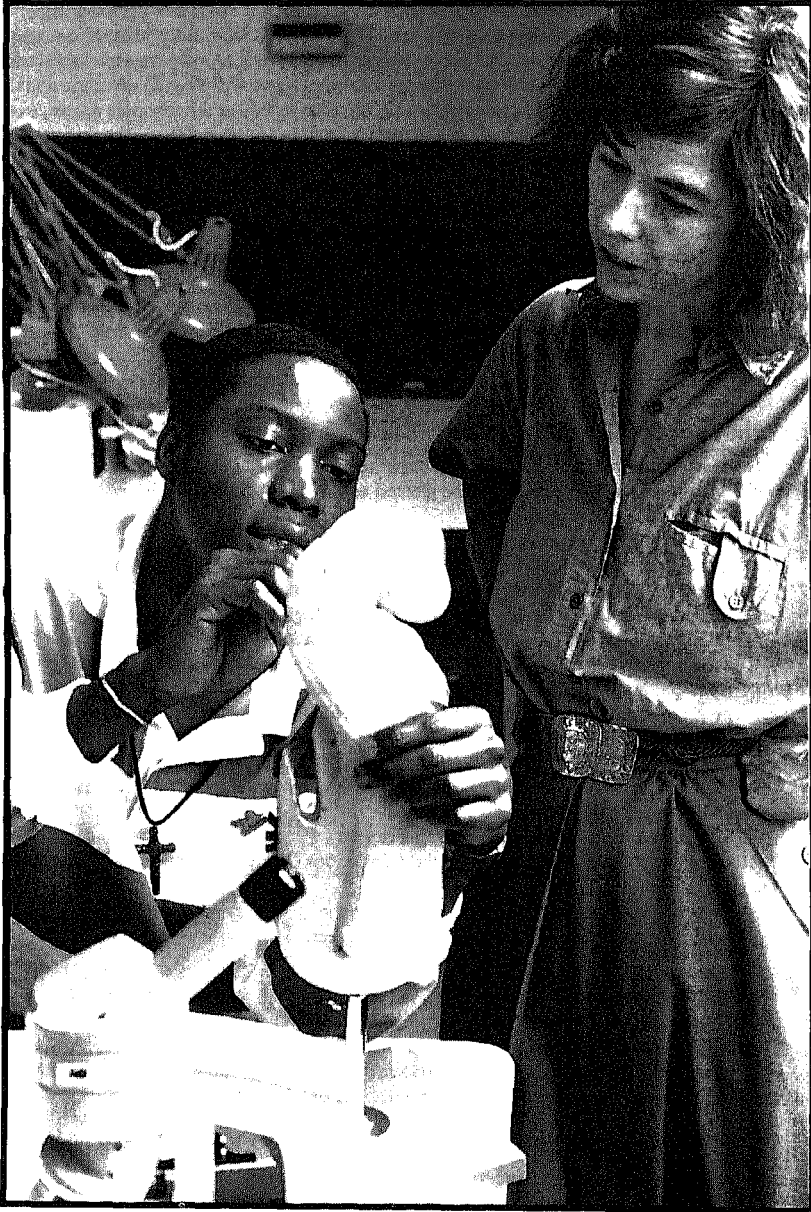
### Non-degree Students

Students who do not wish to pursue a degree may be admitted through the Center for Adults and Part-Time Students as special "non-degree" students. Non-degree students who wish to become degree candidates must meet regular transfer admission standards. No more than 18 hours of Xavier credit taken under non-degree status will be applied toward a degree at Xavier.

## Undergraduate Admissions

### 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 referred to the Director of Veteran's Educational Benefits, Registrar's Office, Xavier University.



# UNDERGRADUATE SCHOLARSHIPS AND FINANCIAL AID

## Standards of Academic Progress

All financial aid recipients must be making satisfactory academic progress towards their degrees. Progress is measured by a combination of grade point average and time. Specific details are included with financial aid awards, and are available in the Financial Aid Office.

## SCHOLARSHIPS

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

1. Undergraduate degree programs: the Director of Financial Aid.
2. The Center for Adult and Part-Time Students: the Director of CAPS.
3. Reserve Officer Training Corps (ROTC) Scholarships: the Professor of Military Science.
4. Athletic Grants-in-Aid: the Director of Athletics.

## Regulations Concerning Scholarships

1. With the exception of the Xavier Undergraduate Service Fellowships and the Fredin Memorial Scholarships, all Xavier-sponsored scholarships are only applicable to tuition alone. They may not be applied to the cost of room, board, fees, or summer school courses. Nor are they applicable to courses taken in the Medical Technology program during the senior year.
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 forfeited scholarship reinstated must reapply for it.
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 Financial Aid and Scholarships Committee of Xavier University. The committee reserves the right to adjust the scholarship if the holder receives financial aid from some other source.

## The Xavier Undergraduate Service Fellowships

These full tuition, full room and board fellowships are awarded annually on a competitive basis to incoming freshmen in recognition of the highest academic achievement and a solid record of volunteer service to school, community and/or church. The application deadline is January 15. Fellowships are renewable each year 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. In addition, the recipient must perform a specified amount of services throughout the four years.

## 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 15 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.

## **Undergraduate Financial Aid**

### **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. Further information about these awards can be obtained by contacting the Office of Admissions or the Office of Financial Aid. The application deadline is April 1. These scholarships are renewable each year 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.

### **Upperclass Scholarships**

Upperclass students who have no other Xavier-sponsored scholarship may be eligible for a partial-tuition scholarship. Applicants must have completed at least 23 hours at Xavier with a cumulative average of at least 3.25. The application deadline is April 1.

### **Departmental Scholarships**

Six departments, Chemistry, History, Classics (Latin), Mathematics, Modern Languages (French or Spanish) and Physics, each offer one \$1,500 scholarship to the incoming freshman who scores highest on the departmental examination administered on campus each year during the month of December. Details are available from the Admissions Office. These awards are given in addition to any other partial scholarship and financial aid for which the winner might be eligible. They are renewable for four years as long as the winner is a full-time student, maintains the appropriate major, and achieves a 3.0 grade point average in the freshman year and 3.25 grade point average thereafter.

### **McAuley 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 or music. They are awarded on a competitive basis. Interested prospective students should contact the Admissions Office for further details.

### **Edgecliff Scholars Awards**

These partial tuition scholarships are awarded to incoming freshmen with financial need. First consideration is given to the dependents of Edgecliff alumni. These scholarships are renewable each year 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. Application forms are available in the Edgecliff Alumni Office.

### **Fredin Memorial Scholarships**

Each year the Fredin Scholarship Committee awards several scholarships to worthy students to help them finance one full year of study at the University of Paris (Sorbonne). 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.

### **The Fifth Third Bank/Jacob G. Schmidlapp Scholarships**

Scholarships awarded to students majoring in Montessori Education. Further information is available in the Financial Aid Office.

### **The Jack G. and Mary Catherine Downing Scholarships**

Two full-tuition scholarships awarded by the College of Business Administration. Further information is available in the Financial Aid Office.

## **The Pedro Arrupe Scholarship**

One full-tuition scholarship awarded once every four years to an incoming African-American student in recognition of high academic achievement and community involvement. It honors the former Superior General of the Society of Jesus (Jesuits). Further information is available in the Admissions Office.

## **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, \$7,000 of tuition, fees, plus a monthly \$100 subsistence allowance for not more than ten months of the school year.

## **OTHER FINANCIAL AID**

Contact the Office of Financial Aid for information and assistance.

## **Xavier Tuition Grants**

Xavier University awards tuition grants to students who demonstrate financial need and have not received a Xavier academic scholarship. Students should complete the Financial Aid Form (FAF), available at high schools and colleges, and request that the information be sent to Xavier University, Code #1965.

## **Ohio Instructional Grants Program**

The Ohio Instructional Grants Program, established by the 108th Ohio General Assembly, offers financial aid to Ohio residents 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. For further information, contact the Financial Aid Office.

## **Ohio Student Choice Grants**

Ohio Student Choice Grants are given to Ohio residents enrolled for 12 or more hours provided the student is working toward a bachelor's degree and the student was not a full-time college student at any college prior to July 1, 1984. Students are required to complete the Ohio Residency Verification form available from the Financial Aid Office.

## **Grants - Center for Adult and Part-time Students**

The Center for Adults and Part-time Students (CAPS) awards small grants to students registered through CAPS. The grants are based on financial need and are only awarded to students who do not receive other forms of financial aid. For further information contact the CAPS office.



## **Undergraduate Financial Aid**

### **Federal Financial Aid Programs**

Students applying for the following federal financial aid programs must meet these requirements:

1. Be a U.S. citizen or an eligible non-citizen.
2. Maintain satisfactory academic progress.
3. Must be enrolled on at least a half-time basis (6 semester hours or more) as a regular student in an eligible program.
4. Not be in default on any federal loan or owe a refund on a federal grant.
5. Have demonstrated financial need.

#### **Pell Grants**

The Pell Grant Program provides grants to students with exceptional financial need. The student submits a Student Aid Report to the Financial Aid Office to determine the amount of the grant.

#### **Supplemental Educational Opportunity Grant (SEOG)**

A Supplemental Educational Grant is for students with exceptional financial need (with priority given to Pell Grant recipients). While grants may range from \$200 to \$4,000, the university is limited by federal funding.

#### **The College Work-Study Program (CWS)**

The College Work-Study Program provides jobs for students who demonstrate financial need. Earnings for this program are funded by the federal government and the university. Pay must be at least the current federal minimum wage. The student's total CWS award depends on the student's financial need, the amount of money the university has for the program and the aid the student has from other programs.

#### **Perkins Loan**

The Perkins Loan, which has replaced the National Direct Student Loan, is a low-interest loan to assist students with financial need. Recipients are selected by the institution. Repayments begin on a monthly basis within nine months after the borrower ceases to be at least a half-time student. These loans carry a low interest during the repayment period. The loans must be repaid in accordance with the terms specified in the promissory note.

#### **Stafford Loan**

A Stafford Loan is a low interest loan made to college students by banks, savings and loan associations or credit unions. 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. Interest and repayment start six months after the borrower ceases to be at least a half-time student. Freshmen and sophomores with financial need may borrow up to \$2,625 per year and juniors and seniors may borrow up to \$4,000 per year. The maximum borrowing limit for undergraduate and graduate study is \$54,750.

#### **Parent's Loan**

Parents may borrow up to \$4,000 per year for each of their dependents attending college, up to a maximum of \$20,000 for each student. There is no limit on family earnings. The interest rate will be a variable rate based on 91 day Treasury Bills + 3.75%. Interest begins at disbursement of the funds and the parents start making payment 30 days after disbursement. The loan must be completely repaid within 10 years from the most recent loan. Applications are available from banks, savings and loan associations and credit unions.

## Endowed Scholarships

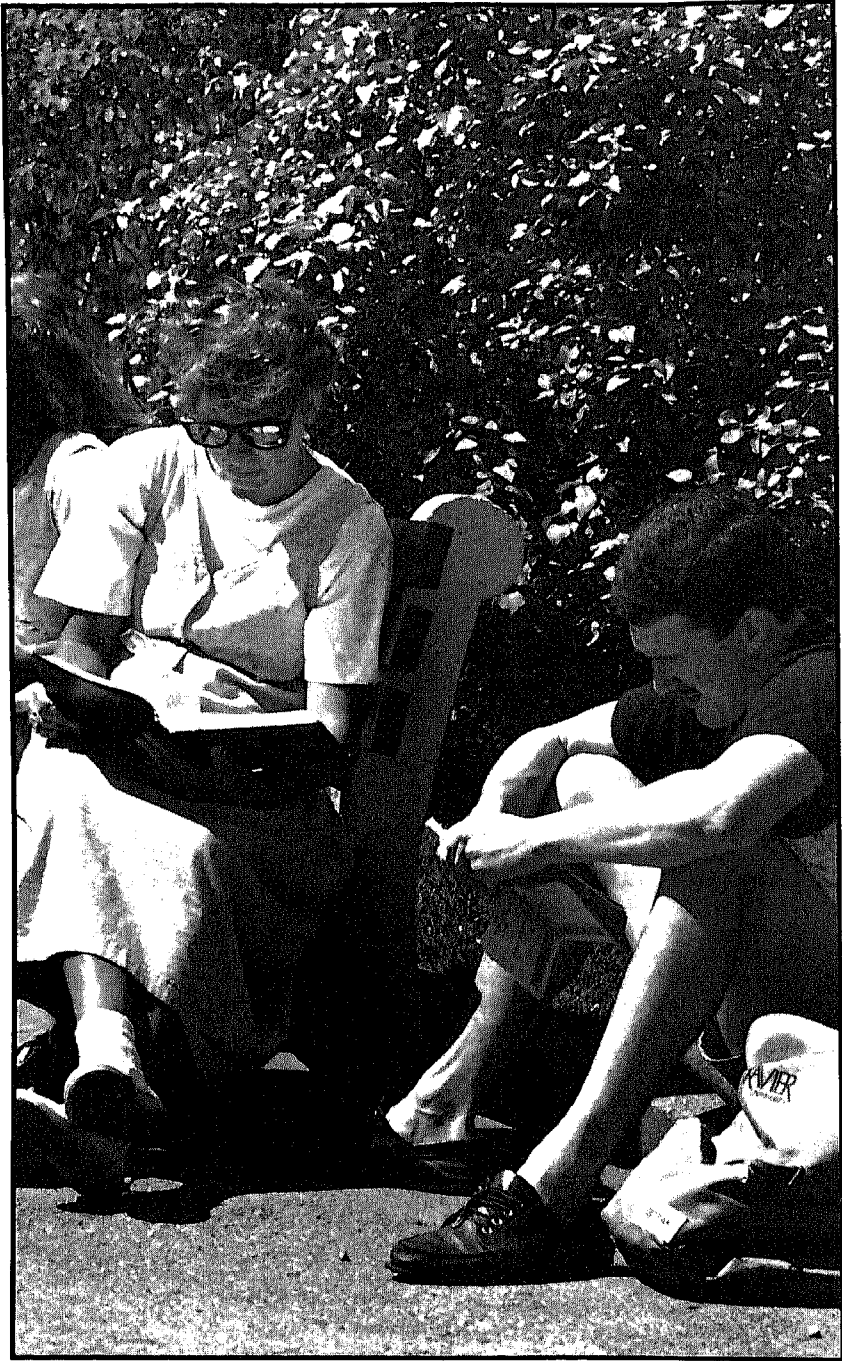
Donations to the permanent scholarship fund of Xavier University honor and memorialize many individuals, classes, and organizations, some of whose names are listed below. The income from this permanent endowment is used to award the university-sponsored scholarships described above.

*Florence & 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*  
*Pedro Arrupe, S.J., Memorial Scholarship*  
*Msgr. Charles E. Baden Memorial Scholarship*  
*Dr. Charles M. Barrett, '34, Memorial Scholarship*  
*Beckman Family Scholarship*  
*C. Robert Beirne Memorial Scholarship*  
*Rev. Clifford S. Besse, S.J., 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 Rolfe and Ada M. Rolfe*  
*Brueggeman Scholarship*  
*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, '48, Memorial Scholarship*  
*Helen Clark Scholarship*  
*C. A. Clasgens 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 1961 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 and Grace Daley Memorial Scholarship*  
*William H. Deddens Memorial Scholarship*  
*Helen Hennigan Diehl - Thomas J. Klinedinst Scholarship*  
*Rev. Albert Dierkes, S.J., Memorial Scholarship*

## Undergraduate Financial Aid

*The Dornheggen Scholarship*  
*Jack G. & Mary Catherine Downing Scholarship*  
*Jesse K. Dunn Memorial Scholarship*  
*Joseph E. Ebertz Memorial Scholarship*  
*Edgecliff Scholars Scholarship*  
*John Eick Memorial Scholarship*  
*James R. Favret/DH&S Memorial Scholarship*  
*Mary Flaspohler Memorial Scholarship*  
*Charles Fleischmann Endowment 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*  
*Steven D. Gerke 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*  
*Hon. Timothy S. Hogan, '30, Memorial Scholarship*  
*Louis J. Homan Scholarship*  
*Charles Housley Scholarship*  
*Thomas K. Jenkins, Jr., Memorial Scholarship*  
*Antonio Johnson Memorial Scholarship*  
*Richard A. Jones Memorial Journalism Scholarship*  
*Hugh Patrick Kieilty Memorial Scholarship*  
*Eva Kroger Memorial Scholarship*  
*Leo G. Kuhlman Memorial Scholarship*  
*Otto Kvapil Memorial Scholarship*  
*Glen A. LaGrange 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*  
*NJSHMG 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*  
*Louis & Louise Nippert Fine Arts 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 & Mary Patton Scholarship*  
*John & Francis Pepper Scholarship*  
*Peterloon Foundation Scholarship*  
*Rev. Joseph J. Peters, S.J., Scholarship*  
*Rev. William F. Poland, S.J., Memorial Scholarship*  
*A. Poplis Family Memorial Scholarship*  
*Proctor & Gamble Scholarship*  
*Glen Randolph Scholarship*  
*Joseph B. Reynolds Memorial Scholarship*  
*Lt. Robert T. Rice, Jr., Memorial Scholarship*  
*Claude A. Ritter Memorial Scholarship*  
*Matthew 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 Montessori Scholarship*  
*Rev. William J. Schmidt, S.J., Memorial Scholarship*  
*Jacob W. Schweizer Memorial Scholarship*  
*Lawrence W. Selzer, '31, Memorial Scholarship*  
*Mary B. Shannon Memorial Scholarship*  
*Mary Claire Shaunnessy Memorial Scholarship*  
*Margaret Shea Memorial Scholarship*  
*Janet and Ralph Sieve Scholarship*  
*Sisters of Mercy Scholarship*  
*Dr. James H. Spraul, '53, Memorial Scholarship*  
*George Springmeier Memorial Scholarship*  
*Sherri Lee Stiefler Memorial Scholarship*  
*Elizabeth Sullivan Memorial Scholarship*  
*James & Cornelia Templeton Memorial Scholarship*  
*Dr. & Mrs. William J. Topmoeller Memorial Scholarship*  
*Fred Tuke Memorial Scholarship*  
*Rev. Benjamin Urmston, S.J., Peace Studies 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*  
*John A. Wieth, '34, Memorial Scholarship*  
*Elizabeth Ryan Williams Memorial Scholarship*  
*Williams Family Scholarship*  
*Worpenberg Family Memorial Scholarship*  
*G. Milton Wurzelbacher Memorial Scholarship*  
*E. Nelson Zoeller Memorial Scholarship*



# UNDERGRADUATE ACADEMIC POLICIES & REGULATIONS

## Classification of Students

1. Freshmen - students having fewer than 24 credit hours
2. Sophomores - students having from 24 through 54 credit hours
3. Juniors - students having from 55 through 89 credit hours
4. Seniors - students having a minimum of 90 credit hours
5. Non-degree - students who have not declared themselves candidates for a degree at Xavier
6. Transients (guests) - students from another college or university taking courses as a non-degree student at Xavier for transfer back to their home institution
7. Auditors - students taking courses but not for college credit
8. Part-time - any student carrying fewer than 12 semester credit hours

## Semester Hours

A semester hour or a credit hour is equivalent to fifteen hours of classroom work per semester. A weekly two- or three-hour period of laboratory work is considered equivalent to one credit hour. The credit hours for work in internships, practicums and student teaching vary.

The number of semester hours which each course carries is provided in the course description section of this catalog. The number is the Arabic numeral following the title of the course. The courses are listed by department within the colleges.

## Course Load

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the colleges and academic departments. The following maximum course loads may only be exceeded, even if the additional hours are to be taken for audit, with permission from the student's dean.

1. Fall or spring - 18 hours
2. Summer - 7 hours each session, not to exceed 14 hours for the entire summer

## Grading System

A - Exceptional	I - Incomplete, grade withheld pending fulfillment of assignments, removed when grade is assigned.
B - Good	W - Withdrawal (approved)
C - Satisfactory	S - Pass for Satisfactory/Unsatisfactory
D - Minimum passing	U - Failure for Satisfactory/Unsatisfactory
F - Failure	Au - Audit

No grade change can be made later than the 15th calendar day after the beginning of the next academic semester (fall or spring) except in the case of a resolved Grade Grievance.

## Incomplete Work and Attendance

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 assigned. Unless a grade change is submitted by the fifteenth calendar day of the academic semester following the course, the student will be recorded as failing the course. Exceptions to this policy must be approved in writing by the appropriate dean prior to the that date.

A student missing the final examination of a course receives an F unless prior approval has been obtained from the dean, in which case the grade of I will be given. The same completion deadline applies as explained in the paragraph above. The final examination schedule is published

## Undergraduate Academic Policies

in each semester's Schedule of Classes bulletin. In order to secure credit in any registered course, the student is required to attend classroom and laboratory exercises regularly and promptly. Unexcused absence from a previously announced test may incur the penalty of a failure in that particular test. Regular attendance, missed class and test procedures are determined by the individual faculty members.

### Auditing Courses

Anyone wishing to audit a course without receiving credit may do so (consult the schedule of fees). Auditing is permitted only in courses in which space is available. See page 43 for additional information.

### Quality Points

The quality point is the unit used to measure student achievement in a course. The number of quality points received for any course is equal to the number of 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 points per credit hour
- I - 0 points per credit hour

The grade point average of the student at the end of any session is computed by dividing the total number of quality points earned by the total number of credit hours attempted in that session. S/U grades are not figured into quality points.

### Academic Standing

#### Academic Good Standing

A student who has earned a cumulative grade point average of 2.00 or better (a "C" average or better) is in good standing.

#### Academic Warning

A freshman whose cumulative average is below 2.00 but not below 1.75 receives an academic warning.

#### Academic Probation

A freshman whose cumulative average falls below 1.75 is placed on probation.

An upperclassman whose cumulative average falls below 2.00 is placed on probation.

Probation can be imposed by a dean at the end of any semester. While on probation a student may be restricted to a reduced course load, and/or receive other stipulations intended to improve the student's academic success. Probation is removed when the student's cumulative average rises to 2.00 or above.

#### Academic Suspension

Students on probation who fail to restore a cumulative grade point average to 2.00 within two semesters will be suspended. Probationary students and freshmen who receive more than one failing grade within a single semester will be suspended. Suspension will be enforced unless in the judgement of the dean there are extenuating circumstances. One fall or spring semester must elapse before a suspended student may reapply.

#### Academic Readmission

A suspended student who wishes to return is required to complete a Readmission Application Form, available in the Registrar's Office. Readmission and the conditions for such will be determined by the dean of the college which issued the suspension letter. All prior financial obligations must be settled with the Bursar's Office prior to readmission.

### Academic Dismissal

A student who has been readmitted after a period of suspension and who fails to meet the terms of the readmission as stipulated by the appropriate college dean will be dismissed from Xavier and is not eligible to return.

Actions regarding warning, probation, suspension, readmission, and dismissal will be noted on the student's permanent record (transcript).

### Academic Bankruptcy

Academic bankruptcy allows an undergraduate to continue work toward a college degree without having to be severely burdened by a semester with a high proportion of low or failing grades. Academic bankruptcy means that all credits and all grades for a given semester are excluded from the computation of a student's grade point average.

A student may apply to the college dean for academic bankruptcy after the completion of a subsequent semester of satisfactory performance. Satisfactory performance is defined as a GPA of 2.00 in a semester at Xavier that includes at least 6 credits of graded courses and no course withdrawals. The granting of academic bankruptcy may occur only once in a student's academic career at Xavier University. Actions regarding warning, probation, suspension, readmission, and dismissal are not modified by this policy.

### Eligibility for Participation in Extracurricular 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:

- 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;
- Students with sophomore standing or higher must have a 2.0 at the beginning of the academic year. They will be eligible to participate in extracurricular activities the entire year. 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 fall or spring semester, students who complete at least six credit hours for letter grades (i.e., not Satisfactory/Unsatisfactory) with an average of at least 3.5 are placed on the Dean's List for that semester. There is no Dean's List for summer studies.

### 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 declining to accept any paper which does not meet acceptable standards.



## Undergraduate Academic Policies

### Grade Grievance Procedure

Students may appeal final grades if they believe that the grade was awarded unfairly. The student must be able to provide some evidence of the lack of fair treatment in order to file a formal grievance, and must follow this procedure when filing such an appeal.

1. The student shall indicate in writing to the chair of the department in which the instructor is located that he/she is appealing the grade. This notification must be submitted in person or postmarked by February 1 for fall grades, June 15 for spring grades, and September 1 for summer grades.
2. The student shall meet with the instructor to try to resolve the grade dispute before February 15 for fall grades and before September 15 for spring and summer grades.
3. If a resolution is not reached and the student still believes that the grievance has merit, the student shall submit a request in writing to the department chair for a meeting with the chair and the instructor. This request should indicate when the meeting with the instructor was held and its outcome, should explain exactly how the instructor's action was unfair, and should be received by the department chair by March 1 for fall grades, and October 1 for spring and summer grades. The student shall meet with the department chair and instructor to try to resolve the dispute at this level.
4. If a resolution is not reached and the student wishes to pursue the grievance, he/she shall submit the statement from step #3, along with all evidence and documentation which supports the allegation, to the dean of the college in which the instructor is located. This should be done within five working days after meeting with the department chair and the instructor.
5. The dean shall convene a committee, composed of him/herself, three faculty and two students, to conduct a hearing on the grievance. Two of the faculty shall be from within the college and one from outside the college in which the instructor is located, and all shall be appointed by the dean. The two students shall have the same status as the grieving student, either graduate or undergraduate. If undergraduate, they shall come from a pool of 4-6 students appointed by the president of student government. One student shall be from within the college in which the grieving student is enrolled, and one shall be from outside the college. The dean shall choose the two students from the pool. If graduate, the dean shall meet with the appropriate graduate student organizations from the colleges to select the two students to sit on this committee.

The committee shall hold the hearing. The instructor and the student shall be present and shall each be allowed an advisor (from within the university community) and shall be permitted to present witnesses. The committee, advisors, instructor and student shall all have the right to question the witnesses. The committee shall deliberate in closed session, and must present its decision in writing to the student and the instructor within five working days of the hearing.
6. The decision of the committee is final unless new evidence or new witnesses not previously considered or heard at the hearing become available. The student must submit this new evidence to the academic vice president within ten working days following the receipt of the committee's decision and must indicate precisely how this evidence or testimony relates directly to the alleged unfair awarding of the disputed grade.
7. The decision of the academic vice president is final. There is no further appeal.

## 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, unauthorized copying of computer software, and the falsification of results and material submitted in reports or registration information.

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 the course, expulsion from the university. The dean of the college in which the student is enrolled 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 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 society. 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*. A student violating any university regulation will be subject to disciplinary action. In minor cases, the appropriate staff member, (usually from the Office of Residence Life or Commuter Services) will take action after consultation with the student.

Serious cases of misconduct will be presented before the University Discipline Officer or the University Disciplinary Board. The Discipline Officer or the Board, after hearing a case in accordance with established procedures, will determine the penalty, if any. The Discipline Officer and/or the Board have the power to suspend or expel any student found to be in serious violation of any university regulation. Refer to the current *Student Handbook* for procedures.

Disciplinary records are confidential and are maintained by the Office of the Vice President for Student Development for a period of five years.

Academically related discipline problems will be addressed through the appropriate department chair, dean and academic vice president.

Xavier University reserves the right to dismiss a student 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. A student also may be required to withdraw for reasons of poor scholarship, failure to remove academic probation, or for misconduct.

## Loss of Academic Credit

Academic credits for courses in which the student is currently enrolled may be lost by a student who is dismissed or expelled from the university before the end of the semester. The transcript will not reflect any disciplinary information, but will indicate academic probation/suspension/dismissal.

## Transfer within the University

A student wishing to transfer from one undergraduate college (Arts & Sciences, Business Administration, Social Sciences) to another must receive the written approval of both deans involved, beginning with the dean of the college which the student is leaving. A student wishing to change from non-degree status to degree status must apply for admission to the university as a non degree student.

## **Undergraduate Academic Policies**

### **Withdrawal from the University during an Academic Term**

A student who wishes to withdraw from the university during a semester (even if only registered for one course) must do the following:

1. Notify the appropriate college dean in person or in writing;
2. Obtain authorization from the dean;
3. Withdraw in person or in writing through the Office of Registration;
4. If a resident, notify the Housing Office.

A student is considered to be enrolled until officially withdrawn. Failure to withdraw officially from the university will result in grades of "F" for all courses. Once a semester begins, withdrawal from the university is recorded as an "Official Withdrawal" on the student's academic record.

A student who wishes to withdraw from the university between semesters is not required to withdraw formally but is encouraged to contact his/her academic advisor or dean about the decision.

### **Transcript Regulations**

Application for a transcript of credits must be made in writing and signed by the student and filed with the registrar. The request should include the student's name as recorded on the academic record while in attendance, the student's ID number, dates of attendance, and any degree earned.

Transcripts are issued only after all financial obligations to the university have been fulfilled..

There is no charge for the first transcript. A fee is charged for each additional transcript. There is an additional fee assessed for immediate, over-the-counter transcript requests. Immediate transcripts are not produced during registration periods.

### **Courses at Other Institutions**

Courses not available at Xavier may be taken through the Greater Cincinnati Consortium of Colleges and Universities. For courses taken through the consortium, 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. For a list of the 13 consortium schools, see page 11 of this catalog. The student must take written approval for consortium enrollment from the dean to the Registrar's Office.

Students desiring to take courses at an accredited non-consortium university must receive prior approval from their respective dean. Normally no more than 15 hours may be transferred toward a degree after a student has matriculated at Xavier. The student usually must present a catalog with a description of the desired course. Courses from these institutions are treated as transfer credit. Credit is granted provided the grade earned is 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.

### **The Major**

Students must complete all the requirements of their program. Before selecting their program or major or when 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 more than one major, a student must complete all the curricular requirements of each major. Each major is 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. (See page 123).

## The Minor

Students may select a minor or minors in addition to the major. The declaration of a minor or a change of minor is handled through the offices of the deans.

Half of the minor courses must be completed at Xavier. A minimum grade point average of 2.0 must be attained in the course work of the minor in order for it to be acknowledged on the student's permanent record.

Students should consult with the appropriate program director concerning specific requirements for a minor. The following minors are available:

Biology	German	Philosophy
Business	Greek	Physics
Chemistry	History	Political Science
Classical Humanities	International Affairs	Psychology
Computer Science	Latin	Secondary Education
Criminal Justice	Mathematics	Spanish
Economics	Montessori Education	Theology
English	Music	Women's and Minorities'
French	Peace Studies	Studies

## Requirements for Bachelor Degrees

Meeting the degree requirements is the student's responsibility. Candidates for undergraduate degrees must have:

1. completed the requirements listed under the "Core Curriculum," pages 58-59 ;
  2. 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. attained a cumulative grade point average of 2.0;
  4. completed at least 120 hours;
  5. completed the last 30 hours at Xavier unless waived by a college dean;
  6. transferred, normally, no more than 15 hours from another college or university toward a degree after matriculation at Xavier;
  7. filed a formal application for the degree by the deadline printed in the calendar in the front of this catalog;
  8. completed all departmental requirements in the major field and all requirements of their respective college;
  9. met all financial obligations to the University;
- In addition to the above, transfer students must have:
10. completed at least 60 hours in four-year programs;
  11. completed at least one-half of the course requirements of the major at Xavier.

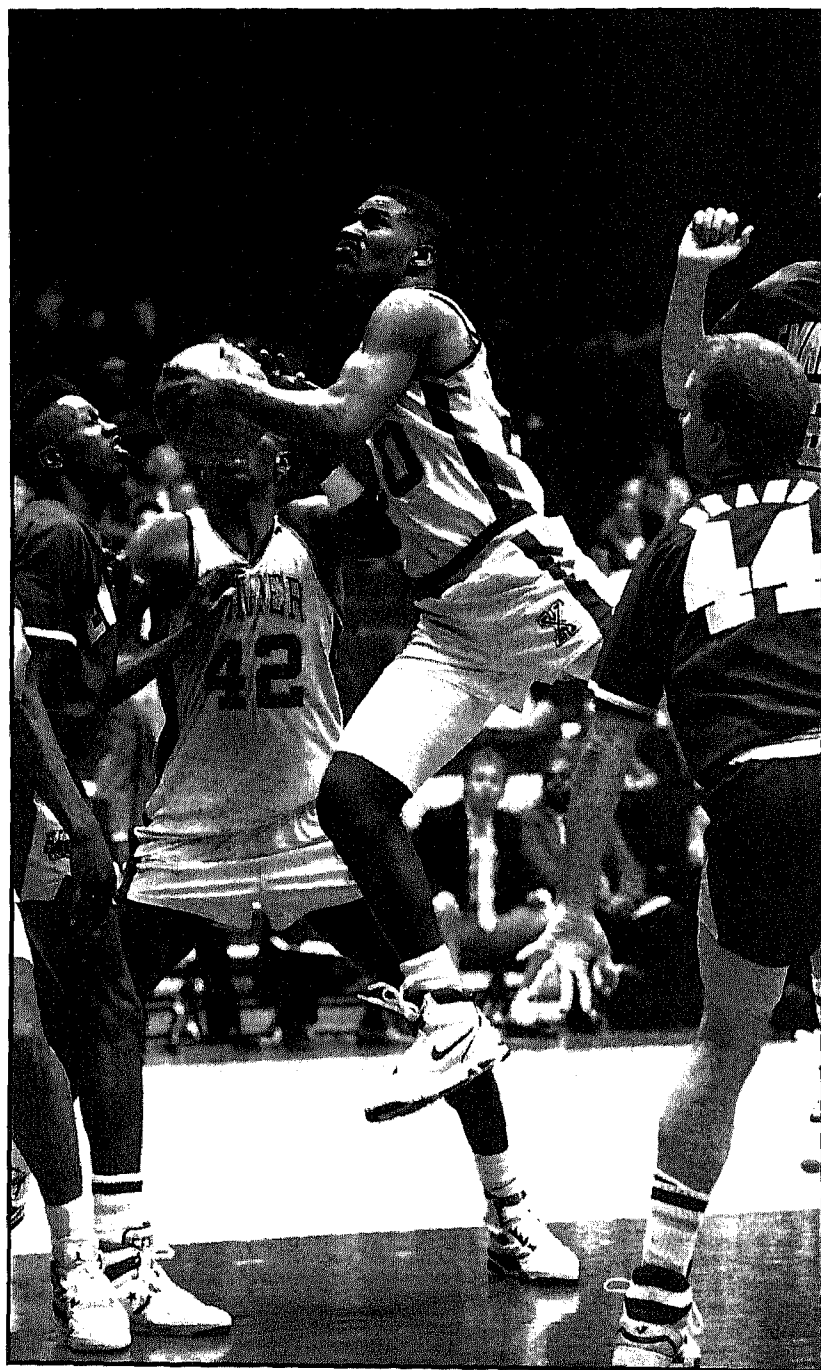
## Graduation Honors

Honors are awarded on the basis of outstanding attainment. A student who has earned a quality point average of 3.90 in his/her Xavier course 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 transcript.

Transfer students with appropriate grade point averages are eligible for honors at graduation if they have completed at least 60 credit hours of graded courses at Xavier University.

## 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 catalog for the year a student initially registers, provided the student continues in attendance without interruption of more than a year. Students who interrupt their attendance by more than a year and who later return must meet curricular requirements as determined by the student's dean.



# GRADUATE PROGRAMS

## General Policies

The policies listed here affect all graduate students. Some degree programs have special policies which are specified within individual program descriptions. The general policies which affect both undergraduate students and graduate students are found on pages 42 to 54.

## Classification of Students

Graduate students who have been admitted to Xavier University are designated as:

1. Degree students - those students officially accepted into a graduate degree program.
2. Non-degree students - those students pursuing graduate courses without the intention of applying the courses to a graduate degree or those who are taking coursework beyond a graduate degree. No more than 6 hours may be transferred to a degree program.

Students are either full-time or part-time according to the following:

1. Full-time    Fall or spring - 9 or more semester hours  
                  Summer - 5 or more semester hours
2. Part-time    Fall or spring - 1-8 semester hours  
                  Summer - 1-4 semester hours

## Admission--Degree Students

To be considered for admission a student must do the following:

1. Submit a completed application form. Forms can be obtained from the Graduate Programs Office, or from each program director. The current application fee must accompany the application form.
2. Present two official transcripts showing a bachelor's degree from a regionally accredited institution with an undergraduate GPA of 2.5 or better on a 4.0 scale.
3. Arrange for official test scores to be sent to the appropriate program office:
  - a. Master of Business Administration applicants - Graduate Management Admission Test (GMAT) - send to MBA office;
  - b. Health & Hospital Administration applicants - Graduate Management Admission Test (GMAT) - send to Graduate Programs office;
  - c. All other graduate applicants - Miller Analogies Test (MAT) - send to Graduate Programs office.
4. Submit recommendation letters, required by some programs or in special circumstances.
5. Demonstrate proficiency in the English language.

Notification of acceptance or rejection is sent to each applicant as soon as possible after receipt of all required materials. Official acceptance for graduate study is valid for a two-year period from the date of acceptance. Failure to register within the two-year period invalidates the acceptance and the individual must reapply to the program. Credentials received for admission become the property of the university.

## Admission--Non-degree Students

To apply for admission a student must submit a completed application form and current application fee to the Graduate Programs Office. Credentials received for admission become the property of the university. Non-degree students are subject to the following restrictions:

1. Some courses are not available to non-degree students. Contact the Registrar's Office (745-3941) or the Graduate Programs Office (745-3357) for information about specific courses.

## Graduate Programs

2. Although there is no limit to the number of courses that may be taken as a non-degree student, no more than six hours taken in non-degree status may be applied toward a graduate degree.
3. The transcript will indicate: "Courses were taken by student admitted in non-degree status".
4. A non-degree student may apply to a degree program by completing the application process for degree status.
5. Non-degree students are subject to all university policies described in the Xavier University catalog.
6. A student taking courses for initial teacher certification must submit official copies of transcripts for all college work and see an academic advisor.
7. A student taking courses for certification renewal should see an academic advisor.

## Admission--International Students

International students must comply with all requirements for admission before formal acceptance will be granted and an I-20 form issued. To apply for admission, the student must submit the following items to the International Student Admissions Office (credentials received for admission become the property of the university):

1. An application form, which is available through the International Student Admissions Office.
2. Evidence of proficiency in the English language (TOEFL score is preferred, a minimum TOEFL score of 550 or comparable test and score).
3. Evidence of financial resources or sponsorship to pay tuition, fees, and living expenses while at Xavier.
4. An official transcript of the total college or university academic record (not just a diploma) from all schools attended (mark sheets should be provided where pertinent). Transcripts must have original signature and institution seal. Attested or "true" copies are not acceptable unless certified by an authorized official.
5. Submit recommendation letters, required by some programs or in special circumstances.
6. Graduate Management Admissions Test (GMAT) or other approved test score.
7. Certified English translations accompanying all documents not issued in English.

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 does not enroll 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. Xavier University is approved to work with F-1 (non-immigrant) students.

Direct all information to the International Student Admissions Office at Xavier University.

## Graduate Transfer Credit

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 with the permission of the program director and the dean. Only grades of A or B are transferable. Credit earned by work done by correspondence or television is not accepted. Decisions regarding transfer credit are made at the time of admission to degree student status.

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.

Exceptions to this policy may be made when:

1. a student is permanently transferred to another city.
2. a student is directed by the dean or program director for a specific purpose to take a course not available at Xavier.

In addition, up to 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, with the permission of the program director or college dean.

As a matter of policy, the registrar lists only those graduate courses from other universities which apply toward an advanced degree or pertain to certification.

## Financial Aid

### Scholarships and Assistantships

Xavier University offers a limited number of partial scholarships and partial and full assistantships to qualified graduate students. The academic assistantships offering tuition remission and a stipend are available in many departments and programs. Consult program brochures for information and application deadlines. The Office of Student Development offers full assistantships with tuition remission and stipend within several departments. Inquire in the Office of the Vice President for Student Development.

### Federal Financial Aid Programs

Students applying for the following federal financial aid programs must meet these requirements:

1. Be a U.S. citizen or an eligible non-citizen.
2. Maintain satisfactory academic progress.
3. Be enrolled on at least a half-time basis (5 semester hours or more in fall or spring, 3 hours in summer) as a regular student in an eligible program.
4. Must not be in default on any federal loan or owe a refund on a federal grant.
5. Must have demonstrated financial need.

### The College Work-Study Program (CWS)

The College Work-Study Program provides jobs for students who demonstrate financial need. Earnings for this program are funded by the federal government and the university. Pay must be at least the current federal minimum wage. The student's total CWS award depends on the student's financial need, the amount of money the university has for the program and the aid the student has from other programs.

### Perkins Loan

The Perkins Loan, which has replaced the National Direct Student Loan is a low-interest loan to assist students with financial need. Recipients are selected by the institution. Repayments begin on a monthly basis within nine months after the borrower ceases to be at least a half-time student. These loans carry a low interest rate during the repayment period. The loans must be repaid in accordance with the terms specified in the promissory note.

### Stafford Loan

A Stafford Loan is a low interest loan made to college students by banks, savings and loan associations or credit unions. 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. Interest and repayment start six months after the borrower ceases to be at least a half-time student. Graduate students with financial need may borrow up to \$7,500 per year. The current maximum borrowing limit for undergraduate and graduate study is \$54,750.

### Supplemental Loan for Students (SLS)

Applications for this loan program can be obtained directly from a bank, savings and loan, or credit union. Graduate students may borrow up to \$4,000 per year with an aggregate of \$20,000. The variable rate changes periodically. Payments on SLS loans normally begin within 30 days after receipt of money, although students may defer payments.



## Graduate Programs

### Course Load

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the colleges and academic departments. The following maximum course loads may only be exceeded with permission from the college dean.

1. Fall or spring - 15 hours
2. Summer - 7 hours each session, not to exceed 14 hours for the entire summer.

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.

### Student Progress

No more than six years may elapse between admission to the degree program and completion of work for the degree. Certain programs may impose shorter progress requirements. Candidates for the master's degree who fail to complete all requirements within six years after admission must be readmitted by the appropriate college dean before they can proceed. Readmitted students are held to program requirements in place at the time of readmission.

A student whose time limit has expired may appeal to the college dean for permission to continue. The dean may impose certain stipulations as a condition for continuing.

### Application for Degree

It is recommended that the student meet with the program director before registering for the final semester or summer session of work to ensure that all degree requirements will have been met by the end of that semester or session.

During the final semester or session the student must submit an Application for Degree form to the Registrar's Office before the deadline published in the semester Schedule of Classes. A graduation fee will be charged. If 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, but the fee is only charged once.

Degrees are granted 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. Verification of completion of the degree will be provided by the Registrar's Office upon request.

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.

Students must have discharged all financial obligations to the university before diplomas can be awarded or transcripts released.

### Course Numbers

Courses are numbered in the following way:

200 to 499 - upper division courses, selected courses are open to graduate students for graduate credit. 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.

### Graduate Grading System

A - Exceptional	M - Incomplete (Missing)
B - Good*	Au - Audit
C - Minimal**	S - Satisfactory
D - Inferior - no graduate credit	U - Unsatisfactory
F - Failure	W - Withdrawal

\* minimum for credit in courses below 500 level

\*\* minimum for credit in courses 500 level and above

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 M (Incomplete) should be cleared within four weeks 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 not to exceed a period of one year from the end of the semester. The agreement must be signed by both the student and the professor, and must be submitted to the dean for approval within the four-week limit. After the time limit for a change has passed, the grade becomes a permanent M (Incomplete).

## **Grade Grievance Procedure**

Students may appeal final grades if they believe that the grade was awarded unfairly. The student must be able to provide some evidence of the lack of fair treatment in order to file a formal grievance, and must follow this procedure when filing such an appeal.

1. The student shall indicate in writing to the chair of the department in which the instructor is located that he/she is appealing the grade. This notification must be submitted in person or postmarked by February 1 for fall grades, June 15 for spring grades, and September 1 for summer grades.
2. The student shall meet with the instructor to try to resolve the grade dispute before February 15 for fall grades and before September 15 for spring and summer grades.
3. If a resolution is not reached and the student still believes that the grievance has merit, the student shall submit a request in writing to the department chair for a meeting with the chair and the instructor. This request should indicate when the meeting with the instructor was held and its outcome, should explain exactly how the instructor's action was unfair, and should be received by the department chair by March 1 for fall grades, and October 1 for spring and summer grades. The student shall meet with the department chair and instructor to try to resolve the dispute at this level.
4. If a resolution is not reached and the student wishes to pursue the grievance, he/she shall submit the statement from step #3, along with all evidence and documentation which supports the allegation, to the dean of the college in which the instructor is located. This should be done within five working days after meeting with the department chair and the instructor.
5. The dean shall convene a committee, composed of him/herself, three faculty and two students, to conduct a hearing on the grievance. Two of the faculty shall be from within the college and one from outside the college in which the instructor is located, and all shall be appointed by the dean. The two students shall have the same status as the grieving student, either graduate or undergraduate. If undergraduate, they shall come from a pool of 4-6 students appointed by the president of student government. One student shall be from within the college in which the grieving student is enrolled, and one shall be from outside the college. The dean shall choose the two students from the pool. If graduate, the dean shall meet with the appropriate graduate student organizations from the colleges to select the two students to sit on this committee.

The committee shall hold the hearing. The instructor and the student shall be present and shall each be allowed an advisor (from within the university community) and shall be permitted to present witnesses. The committee, advisors, instructor and student shall all have the right to question the witnesses. The committee shall deliberate in closed session, and must present its decision in writing to the student and the instructor within five working days of the hearing.

## **Graduate Programs**

6. The decision of the committee is final unless new evidence or new witnesses not previously considered or heard at the hearing become available. The student must submit this new evidence to the academic vice president within ten working days following the receipt of the committee's decision and must indicate precisely how this evidence or testimony relates directly to the alleged unfair awarding of the disputed grade.
7. The decision of the academic vice president is final. There is no further appeal.

## **Requirements**

Specific requirements of the master's programs are described in this catalog. Though advisory services are available to assist all students, the student 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 program director concerned and must have the written approval of the dean of the appropriate college. Additional information is available in the program brochures.

At least sixty percent of course work toward a graduate degree must be courses offered for graduate credit only, i.e., numbered 500 or higher and not open to undergraduate students. The remainder must be in approved upper division courses numbered 200-499 and must be taken for graduate credit.

A minimum quality point average of 2.8 in all courses applicable to a degree is required for graduation from all graduate degree programs. Some programs require a higher average for graduation. In addition, two failing grades shall result in dismissal, see Dismissal below.

## **Academic Warning**

A student whose cumulative GPA falls below 2.8 will be "WARNED". The dean will send this warning to the student and will also send a statement of dismissal policy. Such notification will be sent at the end of each semester so long as the student remains in this status.

## **Academic Dismissal**

Any student who earns two unsatisfactory grades (D or F in courses numbered 500 or above; C, D, or F in courses numbered below 500) will be dismissed.

Any student whose cumulative GPA is below 2.8 and whose next semester GPA is also below 2.8 will be dismissed.

Xavier University reserves the right to dismiss a student for reasons of poor scholarship, academic fraud, or misconduct.

## **Non-academic Dismissal**

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.

## **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 individual faculty member is reason for denial of credit for a course and possible course failure.

## **Comprehensive Examinations**

Comprehensive examination requirements vary according to each program and are found in the program descriptions in this catalog. A student who fails the final comprehensive examination may appeal to the program director to repeat the examination during a subsequent semester or

session (only one examination attempt is permitted during the summer). A second failure will result in dismissal from the program.

### Thesis

Thesis requirements vary according to each program and are found in the program descriptions in this catalog. 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.

### Student Responsibility

It is the responsibility of the graduate student to become informed about all regulations and procedures required by the program. 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. The program director should be consulted concerning requirements, deficiencies, the planning of a program, and special regulations.

Any falsification of information on the application, transcripts, recommendations (where required), or test scores will be sufficient cause for disqualification for admission or dismissal if the individual has been admitted. All tuition and fees paid and graduate credit earned are forfeited under such dismissal.

### Veterans' Education

Xavier University is approved for the education and training of veterans and their dependents under all existing public laws. Requests for information should be referred to the Director of Veterans' Educational Benefits, Registrar's Office, Xavier University.



# REGISTRATION ACTIVITIES

## Undergraduate and Graduate

### Schedule of Classes

A Schedule of Classes is published each semester to provide course offerings, assigned dates, times and procedures for all registration activities. Schedule of Classes bulletins can be obtained in the Registrar's Office, the Office of the Center for Adults and Part-Time Students (CAPS), in the Graduate Programs Office, and the MBA Office. Dates for registration activities are found in the university calendar of this catalog.

### Selection of Courses and Course Loads

The choice of courses and the total number of credit hours in a student's program of studies each semester are subject to restrictions deemed necessary by the college dean or academic advisor.

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the colleges and academic departments. The following are the maximum full-time course loads for undergraduate and graduate students. Permission to exceed these maximums, even if the additional hours are to be taken for audit, must be obtained from the college dean.

#### Undergraduate Students

1. Fall or spring - 18 hours
2. Summer - 7 hours each session, not to exceed 14 hours for the entire summer.

#### Graduate Students

1. Fall or spring - 15 hours
2. Summer - 7 hours each session, not to exceed 14 hours for the entire summer.

### Academic Advising Center

Academic Advising is designed to assist students in their pursuit of educational plans and programs which will aid them in fulfilling their majors and/or careers. The Academic Advising Center is located on the first floor of Alter Hall, rooms 104A-H. Its major focus is the following: College of Arts and Sciences and the College of Social Sciences undeclared majors in the freshman and sophomore years, and students with special advising needs in all three colleges. Students with declared majors in all colleges are advised by department chairs or designated faculty advisors in the departments of the college. Undeclared majors in the College of Business are advised by the associate dean or a designated advisor in that college. Adult and part-time students may seek advisement through the Center for Adult and Part-time Students or through their department.

### Preregistration - Graduate and Undergraduate

Preregistration for a semester occurs midway through the previous semester and gives returning students the opportunity to enroll early in desired classes.

Only students enrolled in the current fall or spring semester are eligible to preregister for the upcoming semester. There is no preregistration for summer session. In order to preregister, undergraduate students must have an approved advisor's signature on the registration form. No payment for tuition and fees is required during preregistration. Billing statements for preregistered schedules are mailed to students after preregistration ends. Payment due must be submitted approximately four weeks before the beginning of the next semester. If payment is not submitted by the specified due date, the preregistered schedules will be canceled and the student will have to re-register during registration.

## Mail Registration

A mail registration period is offered to graduate students for the fall and spring semesters, and to all students for summer sessions. Graduate students may obtain mail registration materials by calling or writing the Registrar's Office. Full payment for tuition and fees must accompany a mail registration.

## Registration

Registration occurs within the week preceding the beginning of a semester for students who did not participate in preregistration, or did not complete payment obligations for preregistered schedules. Dates for registration can be found in the university calendar in this catalog and in the Schedule of Classes.

## Late Registration

Late registration begins the 2nd day of the semester and ends on the 7th calendar day of the semester. A late registration fee is charged. Registration is not permitted after the 7th calendar day of the semester.

## Schedule Adjustment (Course Adds-Withdrawals)

To add or withdraw from courses a student must complete a change of course form in the Registrar's Office, according to the following schedules:

### Undergraduate Students

1. Adding courses - permitted through the 7th calendar day of the semester.
2. Dropping courses - see deadlines and requirements in the current Schedule of Classes.

### Graduate Students

1. Adding courses - permitted through the 7th calendar day of the semester.
2. Dropping courses - can withdraw with the grade of "W" after the first day of the semester until the last day of regularly scheduled classes. Withdrawals are not permitted during the week of final examinations.

The Bursar's Office adjusts the student's financial account based on the add-withdrawal activity. There is a fee charged for each change of course starting with the 2nd day of the semester (NOT the 2nd class meeting)

## Special Registration Conditions

Students taking courses as audit, or as repeated courses are responsible for obtaining and completing the proper forms to identify such courses at the time of registration, during schedule adjustment days, or during late registration.

### **Auditing Courses**

Anyone wishing to audit a course may do so (consult the schedule of fees). Auditing is permitted 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. No one may change from credit status to audit status or from audit status to credit status after the 7th calendar day of university classes.

### **Repetition of Courses**

A course previously taken for credit may be repeated. A student may register for the same course no more than three times, including any withdrawals. The hours of the repeated course are counted only once. While all grades are entered on the student's

## Registration Activities

permanent record, only the most recent grade counts in the student's grade point average, even if it is the lowest.

### Undergraduate

Some courses may not be repeated, such as:

1. MT 105 may not be repeated after successful completion of a more advanced math course.
2. An elementary or intermediate foreign language course may not be repeated after successful completion of a more advanced course in the same language.

### Graduate

Courses completed in a student's undergraduate program or in another graduate program cannot be repeated for graduate credit. Courses applied to another degree, either at Xavier or another institution, may not be applied to any masters degree at Xavier.

## Identification Cards

Student identification cards are required for all students. ID cards are provided through the Registrar's Office. The card is the student's official university identification and must be used to withdraw books from the library, purchase tickets or gain admission to university sponsored events, and utilize facilities and services. Questions concerning services and privileges available to students should be referred to the Office of the Vice President for Student Development.



# UNIVERSITY FINANCIAL POLICIES

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 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, 3800 Victory Parkway, Cincinnati, OH 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. Preregistration may be allowed, but if payment or other arrangement is not made by the announced deadline, the bursar has the option of canceling the student's preregistration. University regulations prohibit the release of transcripts and diplomas for students whose accounts with the university are delinquent.

## Payment Options

The university accepts payments in cash, checks, Visa and Mastercard. If payment is to be made directly by a student's employer, appropriate company authorization papers must be submitted at the time of registration.

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 the 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 Bursar's Office.

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 collections manager.

Any unpaid balance is subject to a late payment charge.

## Preregistration

Students who have signed up for courses during preregistration 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 four weeks before the beginning of the semester. Payment must be made, or a deferment obtained as described above, by the due date, or the preregistration will be canceled and the student will have to re-register during registration.

## Registration, Mail Registration, Late Registration

All students who do not preregister are required to pay 100% of tuition and fees at the time of registration, mail registration or late registration except students using the Ten-Month Payment Plan or those receiving deferments as described above. Students who register late will be charged a late fee.

## Tuition and Fees

### Undergraduate Programs

Each academic year the university publishes the Schedule of Tuition and Fees which lists the charges for tuition, housing, board plans and other recurring and non-recurring fees in effect for the current academic year. Specific course fees, lab fees and deposits



## Financial Policies

are listed in the current Schedule of Classes. Below is a list of how the rates are applied in the undergraduate programs.

1. 12 to 18 credit hours - full-time tuition rate
2. more than 18 credit hours - per hour rate for hours over 18
3. 7-11 credit hours - per hour tuition rate for all hours taken
4. 1-6 credit hours - discounted per hour tuition rate
5. Radiologic Technology - flat tuition rates for this program
6. ELAC program - flat tuition rates for this program
7. Audit - 50% of the undergraduate tuition rate plus 100% of any applicable fees.

### Deposits

1. New full-time students - a non-refundable tuition deposit of \$50 (which may be submitted any time after the letter of acceptance has been received) due no later than May 1.
2. Resident students - a non-refundable \$100 housing deposit (room reservations will not be honored without payment of the deposit).

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

### Graduate Programs

Current tuition and fee rates, special course/lab fees, and other relevant information are contained in the current Schedule of Classes.

Students taking graduate courses for audit are charged the full graduate tuition rate. Graduate students taking undergraduate courses for undergraduate credit are charged the undergraduate tuition rate. Graduate students taking undergraduate courses for graduate credit are charged the graduate tuition rate. Applicable course fees are charged in all cases.

## Refunds

Students who officially withdraw from the university or withdraw from class(es), (see withdrawal policies under Academic Policies and Regulations, page 31 and Registration Activities, page 43), may be eligible for a tuition refund according to the following schedule. Lab and course fees are not refundable after classes begin. A request for a refund must be made in person or in writing to the Bursar's Office.

This schedule is applicable to the Fall and Spring semesters:

Number of Calendar Days From <u>Beginning of the Semester</u>	Amount of <u>Refund</u>
Before the first day	100%
1st - 11th day	90%
12th - 16th day	70%
17th - 21st day	50%
22nd - 28th day	30%
29th - 35th day	10%
After 35th day	0

Tuition refunds for summer sessions are prorated based upon the official withdrawal date and the portion of the session elapsed.

Refunds for students leaving the residence halls are based on the tuition refund schedule. Board plan refunds are calculated based on the portion of the semester remaining after the meal card is surrendered.

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 college dean requesting special consideration. Appropriate documentation is required with such an appeal.

## FEEES

See the Schedule of Tuition and Fees published each year by the Bursar's Office for the actual fee amounts. The following is a the description of fees charged by the university.

*Application/Matriculation Fees* - payable once and covers the costs of processing applications for enrollment and the setting up of student records.

*Student Orientation Fee* - covers the costs for the Manresa orientation program for freshmen and undergraduate transfer students.

*Housing Reservation Deposit* - a non-refundable deposit which reserves a room in university residence halls. Deposit is applied against subsequent room rent charges.

*Room Security Deposit* - a refundable deposit for all students residing in university residence halls.

*Parking Permit Fee* - permits parking in university student parking lots. Permits valid evenings and weekends only are available at a reduced rate.

*Graduation Fee* - covers the cost of processing graduation and payable by all students who graduate, whether in person or in absentia. Late application results in an additional fee being charged.

*Course Change Fee* - covers the cost for each change of course transaction processed after the first day of a semester.

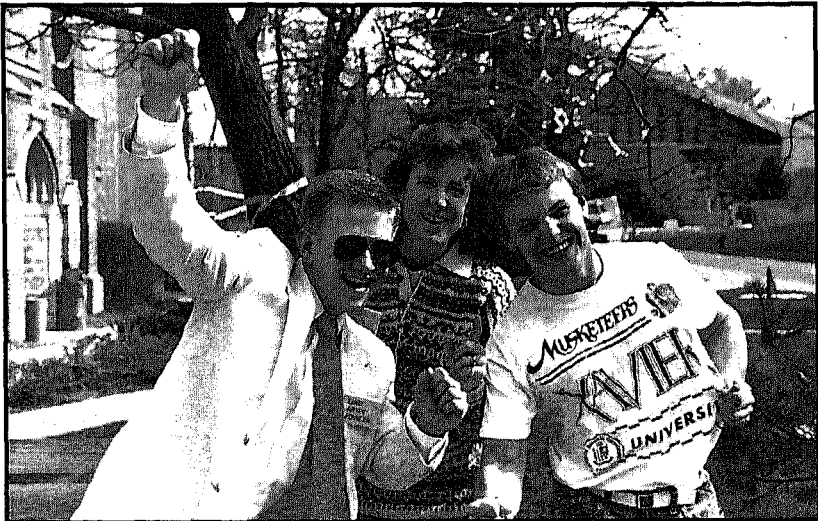
*Late Registration Fee* - charged to all students registering after the first day of semester.

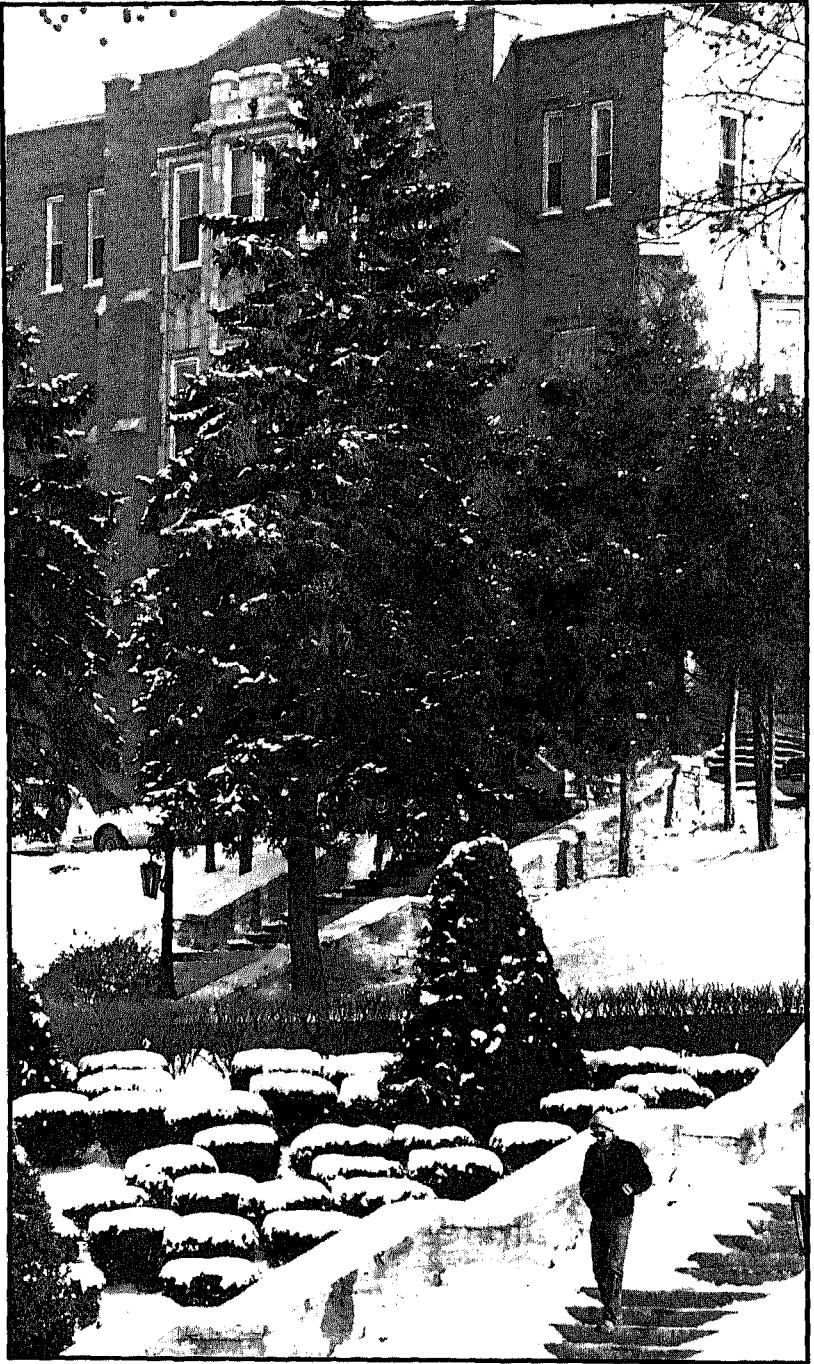
*Transcript Fee* - covers the costs of processing the transcript. There is no charge for the first transcript issued. A nominal fee is charged for each additional transcript and there is an additional fee for immediate processing.

*Special Course/Lab Fees* - cover extraordinary course costs or private music lessons. See the Schedule of Classes for course/lab fees.

*Dependency User Fee* - charged to dependent undergraduate students enrolled under the employee tuition remission program.

*Senior Yearbook Fee* - charged to all seniors who apply for graduation entitling them to a copy of the university yearbook.





# STUDENT DEVELOPMENT AT XAVIER UNIVERSITY

True to its Jesuit and Catholic identity, Xavier's mission is to promote the growth and development of the whole student in a social, cultural, spiritual, physical, and academic context. A wide variety of learning environments exist on the campus and the role of the Student Development Division is to help each student to integrate academic experiences inside the classroom with those which are created outside of the traditional classroom setting. Student Development plays a vital role in helping students at Xavier achieve excellence by providing programs and services that enable them to develop their talents, grow in a sense of their own worth and dignity, and to gain a better appreciation of the worth and dignity of others.

Each of the areas within Student Development is designed to provide students with opportunities for action, involvement, reflection, and decision making, to enable them to take full advantage of the learning experiences available within the Xavier community.

## Office of the 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 and provides general supervision for many areas of student life. This office is also responsible for the enforcement of the Campus Disciplinary Code.

## Manresa: Xavier's Orientation Program

Manresa is a campus-wide effort to provide new students with a comprehensive introduction to campus life at Xavier. It is a balance of social, cultural, and academic experiences which are designed to ease the student's transition into the university and to introduce the options surrounding academic and cocurricular life in the Xavier community. Program segments speak to the specific needs of international students, commuters, transfers, part-time students, and adult students. Parents and family members of new students are invited to participate in a special Manresa program.

## University Ministry

The purpose of University Ministry is to promote religious and faith development and to minister to the spiritual needs on campus. University Ministry oversees a broad range of spiritual and religious activities on the Xavier campus. Staffed by professional chaplains, men and women, lay and ordained, University Ministry offers opportunities for pastoral counseling, spiritual direction, retreats, shared prayer, liturgy planning, a chance to reach out to others in service, and the opportunity to confront issues of peace and justice.

Bellarmino Chapel serves as both Xavier University's chapel and as a parish in the Archdiocese of Cincinnati. The liturgies are Roman Catholic; however, all services and programs are open to students of all faiths. Each residence hall has a resident chaplain and chaplains of other faith traditions are available.

## Programs in Peace and Justice

Xavier's Center for Programs in Peace and Justice, located in Dorothy Day House, is a place where social issues of the day may be studied, discussed, and acted upon.

Students, faculty, and staff will make the link between peace and justice in various ways. Each individual develops his or her convictions on the causes of war and the quest for peace and its complement, justice. Programs in Peace and Justice schedules activities to stimulate open dialogue and responsible scholarship and action among all groups. Combining service with learning programs, Peace and Justice provides volunteer opportunities, small group experiences, and a variety of stimulating and challenging speakers to the campus community.

## Student Development

### Counseling Services

#### Health and Counseling Center

The Health and Counseling Center serves present needs and helps with future planning. Professional psychologists and counselors assist students in dealing with personal concerns, while physicians and nurses provide quality medical treatment. In addition to personalized counseling and medical attention, the Center offers education and guidance in areas including comfort with interpersonal relationships; stress management; family issues; assessing interests related to selection of a major; and strategies for planning for the future and coping with change.

Health and counseling services are offered to all students, full or part time, commuter or resident. A fee may be charged for medications or laboratory tests.

#### Career Planning and Placement

Career Planning and Placement services are designed to assist students in planning for and finding a career commensurate with their interests and abilities. To help students achieve this goal, the office has developed a *Four-Year Plan* with an emphasis on *Self Assessment* during freshman year, *Career Exploration* sophomore year, *Testing Career Decisions* junior year, and *Conducting the Job Search* senior year.

The Center offers individual career counseling; career information resources; Alumni Career Advising Service; major-related employment opportunities; work-study and university job placement; summer and part-time employment options; and other workshops, presentations, and seminars.

Additionally, CP&P provides on-campus recruiting, specialized career days, and resume referral services for graduating students.

#### Psychological Services Center

The Psychological Services Center, staffed by faculty of the Department of Psychology, provides a wide range of professional services to the Xavier community. The Center serves students, faculty, and staff who are seeking assistance for the many difficulties which can accompany college and/or family life. Individual, couple, or family therapy is available for concerns which may include: depression; stress, eating disorders; difficulties in relationships; family issues; sexual concerns; or sports related difficulties of student athletes and coaches.

Although most concerns are handled through short-term counseling, the staff is equipped to deal with more serious difficulties which may require longer term treatment.

#### Exceptional Student Assistance Program

Xavier University is committed to providing equal opportunities for higher education to academically qualified disabled students, by integrating these students as completely as possible into the university community. 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 skills, talents, and limitations. Whenever necessary, advisor, student, and faculty work together to provide a learning environment that promotes academic success and personal development.

#### Office of Minority Affairs

The Office of Minority Affairs, located in Finn Lodge, provides African American students with support services and programs designed to enrich the cultural, academic, and social experiences of all students on campus. A variety of formal and informal group programs and

individual advisement opportunities are offered and Finn Lodge provides a comfortable and casual setting for conversation and study.

### Office of Commuter Student Services

This office responds to the diverse needs of Xavier's commuter students by helping them benefit from the institution's total education process. The Office of Commuter Student Services also acts as a clearing house for information and referral for this special group.

### International Student Services

The Office of International Student Services is responsible for coordinating programs, services, and activities for international students at Xavier. The director works cooperatively with other campus offices, administrative areas, and constituencies to meet the varied needs and concerns of international students.

Services provided include orientation programs, cultural activities, host programs, administrative assistance, and liaison with the Immigration and Naturalization Service, or other governmental agencies as necessary.

### Athletics

#### Intercollegiate Athletics

Xavier University is a Division I member of the NCAA and competes in the Midwestern Collegiate Conference. The program of intercollegiate athletics for men includes basketball, golf, cross country, baseball, tennis, soccer, and swimming at the MCC level and rifle (mixed team) as Division I sports. Women compete in basketball, tennis, swimming, cross country, and volleyball in the MCC. Soccer is a non-conference Division I sport.

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 catalog and will be subject to regular scholastic standards.

#### Intramural and Recreational Sports

Xavier University Intramurals (XUIM) provides the opportunity for Xavier students, faculty and staff to participate in athletic competition and recreational sports. These varied programs, scheduled throughout the year, are designed to individual and group recreational needs. Facilities at the Cohen Outdoor Recreational Sports Center and the O'Connor Sports Center include racquetball, volleyball, and basketball courts, weight training and aerobics areas, outdoor soccer and softball fields, as well as options for other individual and team activities and special events. The university also provides students with an opportunity to participate in rugby, boxing, sailing, and crew at the club sports level.

### Office of Student Activities/University Center

The Student Activities Office coordinates campus programming of lectures, movies, dances, entertainers, and a wide variety of other events scheduled to satisfy the diverse needs and interests of the Xavier community. Participation in the university's co-curricular life, including clubs, organizations, leadership positions, etc., is regarded as a valuable learning experience. Students may choose to become involved in the Student Government Association, Student Activities Council, or any of over seventy different interest groups.

The University Center handles meeting reservations, scheduling, and serves as host to many major campus and community events.

## Student Development

### Information Center

Located in the outer lobby of the University Center, the Information Center assists with the identification of campus resources and maintains information on student and staff telephone numbers, emergency services, campus activities and events, student organizations, and provides general referral for the campus.

### Residence Life

The residence halls continue the educational atmosphere begun in the classroom. A trained staff coordinates educational and social programs designed to provide a secure and supportive living experience. The formal and informal faith activities of the residence halls are strengthened by the live-in presence of several Jesuit priests. All unmarried freshman and sophomore students, not residing with their legal guardian, or whose home addresses are located beyond a 35 mile radius from Xavier, are expected to live on campus. Exceptions to this regulation may be made by the Director of Residence Life. Junior and senior students are invited to live in a residence hall based on an evaluation of their needs and space availability.

The Xavier Village, a complex of two, three, and four bedroom apartments, is a housing option for upperclass students who fulfill the requirements as established by the Office of Residence Life.

### Food Services

The university contracts to provide a full range of meal services to the university community. All residence hall students are required to purchase a meal plan option. Special meal plans are available to commuter students and special diets may be arranged for individuals with specific needs. Three food service areas are available in the University Center with hours scheduled so that snacks and meals are available from early morning to late night.

### Office of Safety and Security

Safety and Security is located in the outer lobby of the University Center. Professional officers are available on a 24 hour basis to provide general assistance to the Xavier community. They also regulate campus parking and present a number of programs throughout the year dealing with crime prevention and safety awareness.



## PRIVACY RIGHTS of STUDENTS and PARENTS

The Family Education and Privacy Act of 1974 (as amended) details the rights of parents and students to access most of the student's 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. A student's records will be released to parents only after receipt of proof of dependency.

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 of teachers and administrators, provided these notes are not available to a third party other than a teacher's substitute. (2) Law Enforcement Records, to include those of the campus police force. (3) Medical and Psychiatric Records - 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, students may not inspect financial information submitted by their parents, nor may they inspect 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 financial information submitted by their parents mentioned above), housing files, discipline records and any athletic records.

Exceptions to the release of records are listed below.

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 and Officials Responsible for Maintenance of Records

Requests for these record below should be directed to the appropriate office at Xavier University, 3800 Victory Parkway, Cincinnati, Ohio 45207.

<u>Record</u>	<u>Official's Title</u>
Undergraduate Admissions	Director of Admissions Director of Center for Adult and Part-time Students (CAPS)
Graduate Admissions	Graduate Programs Office Director, MBA program Director, Executive MBA program
Academic Records	Director of Institutional Research, Records and Registration
Alumni	Alumni Relations Director
Athletics	Director of Athletics
Discipline	Office of Vice President for Student Development
Housing	Director of Residence Life
Financial Accounts	University Bursar
Financial Aid	Director of Student Financial Aid
Health	Director, Health & Counseling Center
Placement	Director, Career Planning & Placement
Psychological Counseling	Director, Psychological Services Center
Teacher Education	Chair, Department of Education



## **Privacy Rights**

### **Review and Expunging of Records**

Each of the offices 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 concerned. Specific procedures can be determined by contacting the official of the office concerned.

### **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. Student requests for a formal hearing must be made in writing to the appropriate vice president who, within a reasonable period of time after receiving such requests, will inform the student of the date, place and time of the hearing. 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. Decisions rendered at the hearing will be final, will be based solely on the evidence presented at the hearing, and will consist of written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned.

### **Cost of Reproducing Files**

Students have a right to request and receive copies of all accessible materials with certain exceptions, e.g., a copy of the official academic record for which a financial "hold" exists. The cost of reproduction shall be borne by the requesting party, and shall not exceed the cost to the institution. The current charge for photocopying 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.

### **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, major field of study, full or part-time status, class standing (freshmen, sophomore, junior, senior) 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 announce publicly to the students what Xavier will release as directory information. A request for non-disclosure will be honored by the institution for only one academic year; therefore, authorization to withhold directory information must be filed annually with the appropriate offices.



# DEGREE PROGRAMS

## Undergraduate Degrees

College of Arts and Sciences (A&S) College of Business Administration (CBA)  
College of Social Sciences (CSS)

### ASSOCIATE OF ARTS

Communication Arts (A&S)  
English (A&S)  
French (A&S)  
History (A&S)  
Political Science (CSS)  
Sociology (CSS)  
Spanish (A&S)  
Theology (A&S)

### ASSOCIATE OF SCIENCE

Criminal Justice (CSS)  
Early Childhood Education (CSS)  
Psychology (CSS)  
Radiologic Technology (A&S)

### ASSOCIATE OF BUSINESS ADMINISTRATION (CBA)

### ASSOCIATE OF SCIENCE IN NURSING (CSS)

### BACHELOR OF ARTS

Art (A&S)  
Classics (A&S)  
Classical Humanities (A&S)  
Communication Arts (A&S)  
Economics (CSS)  
English (A&S)  
French (A&S)  
History (A&S)  
International Affairs (CSS)  
Music (A&S)  
Philosophy (A&S)  
Political Science (CSS)  
Sociology (CSS)  
Spanish (A&S)  
Theology (A&S)

### BACHELOR OF FINE ARTS (A&S)

### HONORS BACHELOR OF ARTS (A&S)

### BACHELOR OF LIBERAL ARTS (A&S)

### BACHELOR OF SCIENCE

Applied Biology (A&S)  
Applied Chemistry/Engineering (A&S)  
Applied Natural Sciences (A&S)  
Applied Physics/Engineering (A&S)  
Biology (A&S)  
Chemistry (A&S)  
Chemical Science (A&S)  
Computer Science (A&S)  
Criminal Justice (CSS)  
Elementary Education (CSS)  
Mathematics (A&S)  
Medical Technology (A&S)  
Montessori Education (CSS)  
Music Education (A&S)  
Natural Science (A&S)  
Physical Education & Health (CSS)  
Physics (A&S)  
Psychology (CSS)  
Teaching Biology & General Science (CSS)  
Teaching Chemistry & General Science (CSS)

### BACHELOR OF SCIENCE IN NURSING (CSS)

(Degree completion program for R.N.)

### BACHELOR OF SCIENCE IN SOCIAL WORK (CSS)

### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

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

## **Graduate Degrees**

**THE MASTER OF BUSINESS ADMINISTRATION  
(MBA)**

**THE MASTER OF SCIENCE (MS)  
Criminal Justice**

**THE MASTER OF EDUCATION (MEd)**

**THE MASTER OF ARTS (MA)**  
**English**  
**History**  
**Humanities**  
**Psychology**  
**Theology**

**MASTER OF HOSPITAL AND HEALTH  
ADMINISTRATION (MHA)**

# UNDERGRADUATE 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. What follows is an explanation of the core curriculum as it applies to most bachelor degree programs. The Schedule of Classes, published by the Registrar's Office each semester, assists the student in choosing the appropriate courses to fulfill each specific core requirement. Students seeking specific core requirements of a particular program should consult the description of that program as it appears elsewhere in this catalog.

## Summary of Core Curriculum

English Composition . . . . .	3 hours
Mathematics . . . . .	6 hours
Science . . . . .	6 hours
Social Science . . . . .	12 hours
Humanities . . . . .	12 hours
Theology . . . . .	12 hours
Philosophy . . . . .	12 hours
Foreign Language . . . . .	12 hours

## Essential Skills

Because writing and mathematical skills are necessary for success in college and beyond, each student is required to demonstrate these basic competencies. These competencies may be demonstrated in the following ways:

- a. Successful completion of courses designed to facilitate mastery of these skills--  
EN 100 for writing, MT 105 for mathematics;
- b. Acceptable examination scores submitted at the time of admission, or performance on tests completed during freshman orientation.

## English Composition

In order to ensure that every student has sufficient writing skills, each student is required to take EN 101 English Composition unless the English Department waives this requirement or substitutes a more advanced writing course for EN 101. Those who enter Xavier deficient in English skills will be required to complete EN 100 Basic English before enrolling in EN 101.

## Mathematics

Those who enter Xavier deficient in mathematics skills will be required to successfully complete MT 105 Fundamentals of Mathematics 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 hour mathematics requirement. Students may not fulfill this requirement by taking two courses similar in content as, for example, MT 150 Elements of Calculus and MT 170 Calculus I, or, prerequisite courses taken after the successful completion of a successive course.

## 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), a student may select any one of the approved laboratory sciences.

## Social Sciences

Students in the College of Arts and Sciences and the College of Social Sciences must take History I and II (HS 100-199) for 6 of the 12-hour social sciences requirement. In the College of

Business Administration, EC 205 Microeconomics and EC 206 Macroeconomics must be taken for 6 of the 12-hour social science requirement.

### Humanities

At least 6 hours must be taken in literature. The remaining 6 hours may also be in literature, or in approved courses selected from certain Art, Communication Arts, Music or Classics departmental offerings. Philosophy, theology and intermediate foreign language courses taken over and above the hours required in each of these disciplines may also be used to fulfill this humanities requirement.

### Theology

The first theology course must be TH 111 Introduction to Theology. Students then take one course from each of three areas: Scripture/History, Christian Systematics/Theological Ethics, and Religion and Culture. While the number of theology courses required of a transfer student depends on the transfer evaluation, transfer students ordinarily take one theology course for each academic year spent at Xavier.

### Philosophy

The philosophy courses are required to be taken in sequence: PL100, PL200, PL290, and a philosophy elective. While the number of philosophy courses required of a transfer student depends on the transfer evaluation, transfer students ordinarily take one philosophy course for each academic year spent at Xavier.

### Foreign Language

Most programs in the College of Arts and Sciences and the College of Social Sciences require an intermediate level of proficiency in a foreign language. 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 department chairs should be consulted for details. International students whose native language is not English fulfill the language requirement by their proficiency in English.

### Requirements for Bachelor Degrees

Meeting the degree requirements is the student's responsibility. Candidates for undergraduate degrees must have:

1. completed the requirements listed under the "Core Curriculum," pages 58-59 ;
  2. 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. attained a cumulative grade point average of 2.0;
  4. completed at least 120 hours;
  5. completed the last 30 hours at Xavier unless waived by a college dean;
  6. transferred, normally, no more than 15 hours from another college or university toward a degree after matriculation at Xavier.
  7. filed a formal application for the degree by the deadline printed in the calendar in the front of this catalog.
  8. completed all departmental requirements in the major field and all requirements of their respective college;
  9. met all financial obligations to the University;
- In addition to the above, transfer students must have:
10. completed at least 60 hours in four-year programs;
  11. completed at least one-half of the course requirements of the major at Xavier.



# SPECIAL UNIVERSITY PROGRAMS

## University Scholars' Program

The University Scholars' Program is an honors program. University Scholars may major in any of Xavier's undergraduate degree programs.

University Scholars receive, according to their major area of study, the appropriate Bachelor Degree--University Scholar.

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 some sciences or in the College of Business Administration 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, 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, and at least one introductory course in economics, both of which must be Honors courses. Scholars in the Colleges of Arts and Sciences and Social 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: EN 115 - Rhetoric and EN116 - Narrative.

### 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 requirement of students in the Scholars' Program is determined by their majors.

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.



## THE HONORS BACHELORS OF ARTS

The Honors A.B. is 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. Honors graduates have gone on to careers in many different academic, professional, and business areas. 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 expected to fulfill the regular university core curricular requirements with the following modifications and whenever possible, special honors sections, or the more demanding sections, of required courses should be taken:

Humanities	- 12 hours of English literature;
Social Sciences	- either 12 hours of history, or 6 hours of history and 6 hours of economics;
Mathematics	- should include calculus;
Science	- should be either general chemistry, or general biology-zoology, or university physics;
Philosophy	- 21 hours;
Greek	- 21 hours;
Latin	- 21 hours;
History of classical lit.	- 6 hours

There remain some 33 elective hours available to the superior student to cover premedical or prelaw requirements, or to do concentrated work in almost any major.

### 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.

American law schools prescribe neither specific courses nor a specific major for prelaw study. They pay particular attention to students engaged in 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 Minor

The Peace Studies Minor 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 Minor can be obtained from any member of the Peace Studies Committee.

**Women's and Minorities' Studies Minor**

The Women's and Minorities Studies Minor is a fifteen hour interdisciplinary program. Its purpose is to allow for a scholarly examination of the various racial, cultural, religious, sexual, and physical "barriers" that divide societies. The problems created by the marginalization of people are addressed in a wide range of courses compatible with any major and open to all students.

Among the areas covered in minor courses are: class, race and sex in society; the problems of aging and the handicapped; ethnic and cultural differences in health care, and discrimination in business and industry.

At the student's request, successful completion of the Minor will be noted on the students official transcript. Further information is available from any member of the Women's and Minorities' Studies Advisory Committee.

**Business Minor for Students Not Majoring in Business**

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 Business Minor offers the nonbusiness students an opportunity for 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 Minor 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:

Course	Sem. Hrs.
<b>Required courses in the Business Minor</b>	
AC 205 Principles of Accounting I .....	3
AC 206 Principles of Accounting II .....	3
EC 205 Microeconomic Principles .....	3
EC 206 Macroeconomic Principles .....	3
MK 300 Principles of Marketing .....	3
IS 100 Introduction to Information Systems .....	3
<b>Other courses recommended but not required</b>	
FI 300 Business Finance .....	3
MG 305 Organizational Behavior .....	3
DS 200 Business Statistics <b>OR</b>	
MT 146 Elementary Statistics <b>OR</b>	
MT 156 General Statistics .....	3
MT 150 Elements of Calculus I <b>OR</b>	
MT 170 Calculus I .....	4

Nonbusiness students may count EC 205 and EC 206 as social science electives in the core. MT 146, MT 156, MT 150, and MT 170 count as mathematics electives in most programs.

**ROTC**

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. For more information and admission requirements, see page 167.



# DEGREE PROGRAMS AND COURSES

## COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences offers undergraduate degrees and programs in the departments of Art, Biology, Chemistry, Classics, Communication Arts, English, History, Mathematics and Computer Science, Modern Languages, Music, Philosophy, Physics, and Theology. Graduate degrees are in the departments of English, History and Theology, and in the area of Humanities. Brochures showing required courses and suggested sequences of courses for each major are available in departmental offices.

### THE DEPARTMENT OF ART

The Department of Art offers two degrees, the Bachelor of Arts and the Bachelor of Fine Arts.

#### THE BACHELOR OF ARTS IN 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 has opportunity for studio practice in one or more of the following concentrations: ceramics, drawing, fibers, graphics, painting, printmaking, and sculpture. Studies in art history are required of each major. Students who wish to be certified as teachers follow a special program for certification. Students interested in careers as art therapists are advised to follow a pre-art therapy program.

Xavier Art Gallery is a laboratory program of the Department of Art. Exhibition opportunities are provided for professional visual artists, the art department students, and other occasional visual programs deemed to be of interest to the University's public.

#### Requirements for an AB in Art

1. Thirty semester hours well distributed in studio courses.
2. Ten semester hours in history of art courses.
3. Participation in Freshman Seminar, Senior Seminar, and Criticism, which may be used to satisfy part of the history of art requirements.
4. Extended experience (minimum of two semesters) in one area leading to a senior concentration and exhibition if concentration is in a studio area, plus specific approval of the concentration advisor.

**NOTE:** In the spring semester 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.

A recommended sequence of program is available for each of the concentrations. Art certification requires an additional 25 hours of education courses as well as 45 semester hours in art for a K-12 certificate. Please direct requests and/or questions to the Department Chair.

## THE BACHELOR OF FINE ARTS

The BFA degree in art is distinguished from the AB degree in art 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, the philosophical base is the same.

The BFA degree requires 70 semester hours in art, distributed as follows:

BFA in relation to the Xavier Core+

<i>Requirement</i>	<i>Sem. Hrs.</i>	<i>Requirement</i>	<i>Sem. Hrs.</i>
AR 100 - Seminar .....	1	Art Major .....	70
AR 101 - Two-Dimensional Design .....	2	Philosophy .....	12
AR 102 - Drawing .....	3	Theology .....	12
AR 105 - Three-Dimensional Design .....	3	Humanities Literature .....	6
Major Studio Area (includes senior concentration) .....	15	Mathematics .....	6
Allied Studio Area .....	12	Science .....	6
History of Art .....	12	Social Science .....	6
Art Electives .....	18	History .....	6
AR 440 - Criticism .....	2	Foreign Language++ .....	12
AR 441 - Seminar .....	2	English Composition+ .....	3
<b>Total Art Semester Hours .....</b>	<b>70</b>	<b>Total BFA Semester Hours .....</b>	<b>139</b>

+ See curricular requirements on pages 58-59.

++ 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 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.

## ART (AR)

*Staff:* MR. SCHMIDT, *chair*; SR. BEIERSDORFER, MS. CHOUTEAU, MS. KARAGHEUSIAN-MURPHY, BR. PRYOR

*Assisted by:* MS. AMNEUS

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 "energesis" of ideas through the study of the integral union of person, process, and product. Corequisite: AR 101, unless exemption has been granted.
- AR 101 **TWO-DIMENSIONAL DESIGN (2)** An experience in visual relationships in which the elements and principles of design are discovered through multi-sensory investigation. Corequisite: AR 100, unless an exemption has been granted.
- AR 102 **DRAWING (3)** A development of the fundamentals--concepts and skills--of drawing through a broad range of aesthetic expressions and multi-sensory exercises.
- AR 103 **PAINTING (3-9)** An experience in totality through the language of form and color with the exploration of the material as primary concern using oils, polymers, mixed media and watercolor.
- AR 104 **PRINTMAKING (3-12)** An introductory study into intaglio, lithography, monotype, relief, or screen printing.
- AR 105 **THREE-DIMENSIONAL DESIGN(3)** An introductory study into the artistic uses of three-dimensional model building.
- AR 106 **FIBER ARTS(3)** An introduction to a variety of fiber techniques both on and off-loom stressing design concepts and aesthetic values. Emphasis is on woven structures.
- AR 109 **CERAMICS (3)** Combining both theory and practice, an in-depth investigation of ceramic art, emphasizing handbuilding techniques, with a brief introduction to the potter's wheel. Clay and glaze mixing, along with kiln firing, are also explored.
- 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 AR104.  
404
- AR 205 **ADVANCED SCULPTURE (3-21)** Study of the plastic qualities of edge and form in three-dimensional time, emphasizing personal meaning and permanent materials. Pre-requisite AR 105.  
405
- AR 206 **ADVANCED FIBER ARTS (3-21)** A continuing exploration of structure and technique including two and three dimensional forms with primary emphasis on the development of a personal visual experience in fibers.  
406
- AR 209 **ADVANCED CERAMICS (3-21)** Advanced study of wheel-thrown and handbuilt forms and their function. Independent clay and glaze formulation, and alternative kiln firing techniques are emphasized.  
409

### 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 221 **ELEMENTARY SCHOOL ART (3)** A comprehensive introduction to art education at the elementary school level employing both theory and practice. The creative and mental stages of development are emphasized. Not open to freshmen.
- AR 223 **SECONDARY SCHOOL ART (3)** An investigation and evaluation of the rationale, behavioral objectives, and organization of art activities at the secondary level.
- 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.  
443

### Lecture Courses

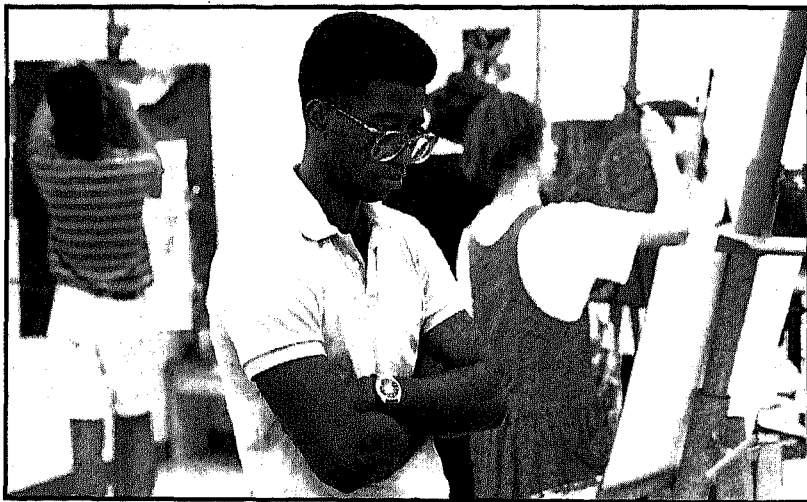
The following listings are lecture courses supplemented with slides, films, tours, and related experiences. They do not require studio activities.

- AR 130 **ART OF THE 20TH CENTURY (3)** A study of European and American Art and Architecture from about 1900 to the present.
- AR 131 **HISTORY OF ART I (3)** A survey of art and architecture from its prehistoric beginnings through the Middle Ages.
- AR 132 **HISTORY OF AMERICAN ART (3)** A study of art and architecture in America from the colonial period to the present with emphasis on 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 260 **HUMANITIES II (3)** Art, music, and literature from the Renaissance to the 20th century, using feature-length films to dramatize cultural patterns.
- AR 331 **HISTORY OF ART II** A survey of western art and architecture from the Renaissance to the present.
- 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 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 the development of theories of beauty, art and taste and their application to contemporary ideas of art.
- AR 441 **SEMINAR: SENIOR ART MAJORS (2)** Practical considerations in aesthetic, business, and legal concerns of the artist. Visitations to artistic resources of Cincinnati.
- 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. Specific faculty approval necessary.
- AR 450 **INDEPENDENT STUDY (Credit to be arranged.)** Problems related to department fields, although not specifically included in the catalogue, may be requested by the student and elected with the approval of the instructor and permission of chair.



## THE DEPARTMENT OF BIOLOGY

The Department of Biology, in cooperation with the Departments of Chemistry and Physics, offers several bachelor degrees and programs:

The Bachelor of Science in Biology

The Bachelor of Science in Applied Biology - Cooperative Forestry and Environmental Management Program

The Bachelor of Science in Natural Sciences (for premedical and pre dental students)

The Bachelor of Science in Applied Natural Science (pre dental or podiatric medicine students)

The Bachelor of Science in Medical Technology

The Bachelor of Science in Teaching Biology and General Science

- in cooperation with the Department of Education

Associate of Science in Radiologic Technology

### THE BACHELOR OF SCIENCE IN BIOLOGY

The biology curriculum includes courses which present current concepts of the molecular, cellular, organismal, and population levels of biological organization. Basic biological principles are presented through the study of animals, plants, and microorganisms. Laboratory sessions provide experience in careful observation, controlled experimentation, and thoughtful analysis of scientific data. The biology program provides preparation for further study at the graduate level or in the health professions (medicine, dentistry, veterinary medicine, podiatry, or optometry), as well as preparation for a teaching career or other specialized employment.

The major requires:

1. 36 semester hours in biology:
  - a. general biology, general zoology, general botany, vertebrate physiology, genetics, bacteriology, and methods of biological research (26 hours);
  - b. Ten hours of electives, including at least one course from each of the following groups:
    - i. Cell Biology, Immunology, Biochemistry;
    - ii. Evolution, Animal Behavior, Ecology.
 Recommended electives for students anticipating entrance to medical or dental schools include general embryology, comparative anatomy of vertebrates, general histology, and biochemistry.
2. Two semesters of college physics.
3. Four semesters of chemistry (general and organic).
4. Two semesters of mathematics (statistics and calculus).

### BACHELOR OF SCIENCE IN APPLIED BIOLOGY

#### Xavier University - Duke University Cooperative

#### Forestry and Environmental Management Programs

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 (similar to a Biology major) 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.

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 in Biology degree.

## THE BACHELOR OF SCIENCE IN NATURAL SCIENCES

### (For Premedical and Pre dental Students)

The Natural Sciences curriculum for premedical and pre dental students presents a liberal arts program with emphasis on those sciences required for an excellent background for subsequent studies in medicine, dentistry, and 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 health professional, but majoring in Natural Sciences is not a requirement for admission to a health profession. If another major is chosen, the student should seek advice from a member of the Committee for Health Sciences and the Chair of the major 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:

1. 20 semester hours in biology (General Biology, Zoology, Embryology, Vertebrate Physiology, and Genetics);
2. 21 semester hours in chemistry (General, Physical/Analytical, and Organic);
3. 8 semester hours in physics;
4. an additional 10 semester hours in a science concentration;
5. PS 101 General Psychology, which fulfills a social science elective.

\* "Medical School Admission Requirements" published by the Association of American Medical Colleges, or "Admission Requirements of U.S. and Canadian Dental Schools" published by the American Association of Dental Schools.

## BACHELOR OF SCIENCE IN APPLIED NATURAL SCIENCE

### Accelerated Programs - Professional Schools of Dentistry and Podiatry

This course of study provides an accelerated curriculum for students interested in continuing with professional education at an institution entering into a joint degree program with Xavier. Degree requirements are met by satisfactory completion of three years study at Xavier University plus one year at the professional school. Consultation with the Health Sciences Committee is essential to select the proper sequence of specific courses needed to meet Xavier requirements and those for admission to the professional schools: School of Dentistry, Case-Western University; School of Podiatric Medicine, Barry University; and Ohio College of Podiatric Medicine.

During the sophomore or junior year the student must take the appropriate national tests and make application to the professional school. The BS (Applied Natural Science) will be awarded by Xavier University upon satisfactory completion of one year of study at the professional school. If the student is unable to enter a professional school, arrangements should be made with the Chair of the Health Sciences Committee to determine the senior year courses necessary for the completion of a BS degree.

## THE BACHELOR OF SCIENCE IN 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 CAHEA\* accredited School of Medical Technology affiliated with Xavier University. Xavier University is affiliated with the following hospital-based programs: The Christ Hospital, Cincinnati; Providence Hospital, Cincinnati; St Elizabeth Medical Center, Covington, KY; University of Cincinnati Medical Center.

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, and 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 CAHEA.

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.

\* Committee on Allied Health Education and Accreditation.

## ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY

Xavier University in affiliation with the Radiologic Technology Advisory Board, offers a two year/full-time (24 months) classroom and clinical program leading to an Associate Degree in Science-Major Radiologic Technology. The hospital affiliates are Bethesda Oak Hospital, Good Samaritan Hospital and St. Francis-St. George Hospital.

Education for the radiography student is an integrated plan of classroom, laboratory and clinical education. The program requires 71 semester hours which includes courses in Liberal Arts and Radiologic Technology, including:

Principles of Radiographic Exposure	Radiation Physics
Medical Terminology	Pathology
Special Procedures	Nursing Procedures
Radiographic Positioning	Radiographic Equipment
Radiation Protection and Biology	Film Processing

The graduates of this program are eligible to take the American Registry of Radiologic Technologists examination.

## Biology (BL)

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

*Laboratory Instructors:* MS. BROERING, MS. GIESMANN, MS. WENDT

*Assisted by:* DR. HEDEEN, MR. PECQUET, DR. TAFURI

BL 106-109, BL 114-115, BL 118-133, and BL 180-183 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 upper division courses. In exceptional cases, BL 118-133 may be considered as full or partial fulfillment. Additional prerequisites are listed with specific courses.

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

### Lower Division Courses

- BL 106 **HUMAN ANATOMY AND PHYSIOLOGY I (3)** The major human systems emphasizing 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 (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 (3)** Principles of molecular, cellular, and organismal biology, emphasizing the physiology of vertebrates. Preparation for most 200-level courses.
- BL 111 **GENERAL BIOLOGY LABORATORY (2)** Laboratory exercises demonstrating the principles of cellular biology and vertebrate biology.
- BL 112 **GENERAL ZOOLOGY (2)** A study of invertebrates: their 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, evolution, plant and animal morphology and physiology. For Elementary Education majors only.
- BL 115 **INTRODUCTION TO THE LIFE SCIENCES LABORATORY (1)** Exercises and field trips to illustrate principles taught in BL 114. For Elementary Education majors only.
- BL 118- **LIFE (2)** Each course emphasizes a different aspect of biology and its impact on human society: gender (118), human biology (120), ecology (122), microbes (124), genetics and evolution (126), and plants (128).
- BL 131- **LIFE INVESTIGATION (1)** Exercises, experiments, and field trips to accompany BL 133 118-128.
- BL 180 **SCIENCE AND SOCIETY (2)** A course describing the discoveries, ideas, and theories relevant to different aspects of science, along with their impact on society. This is an honors level course for University Scholars.
- BL 181 **SCIENCE AND SOCIETY LABORATORY (1)** Exercises, experiments, and field trips
- BL 183 each semester to accompany BL 180 and 182.
- BL 195 **DIRECTED STUDY** Credit to be arranged.

### Upper Division Courses

- BL 200 **GENERAL BOTANY (2)** The morphology, physiology, and reproduction of representatives of each plant division are studied with emphasis on the seed plants. Pre-requisites: BL118-133 or BL 110-113.

- BL 201 **GENERAL BOTANY LABORATORY (2)** Living and preserved specimens of representatives of the various plant groups are studied along with demonstrations of pertinent principles of plant physiology.
- BL 210 **MICROBIOLOGY (3)** Basic study of microbes, their activities, control, role in disease and host immune responses. Intended for Nursing and Pre-pharmacy students.
- 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 humans.
- 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.
- BL 222 **IMMUNOLOGY (2)** An introduction to the specific mechanisms by which the human body reacts to foreign biological materials.
- BL 230 **GENETICS (3)** Principles of heredity, the genetic control of development, molecular genetics, and population genetics. Prerequisites: BL 118-133 or BL 110-113.
- BL 231 **GENETICS LABORATORY (1)** Techniques of investigating fundamental genetic principles using the fruit fly as an experimental animal along with studies of bacterial genetics.
- BL 240 **EVOLUTION (2)** Evidence for and the mechanisms of evolutionary processes. Prerequisites: BL 118-133 or BL 110-113.
- BL 244 **ANIMAL BEHAVIOR (2)** Study of the innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisites: BL 118-133 or BL 110-113
- BL 250 **ECOLOGY (3)** The relationships between organisms and their living and non-living environments. Prerequisites: BL 118-133 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 118-133 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.
- BL 300 **GENERAL EMBRYOLOGY (2)** A description of vertebrate development and an analysis of the mechanisms of animal development.
- 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 evolution of the vertebrates. Prerequisites: BL 300-301.
- BL 311 **COMPARATIVE ANATOMY OF THE VERTEBRATES LABORATORY (2)** Dissection of selected vertebrates with analysis of structure and function as adaptations.
- BL 320 **GENERAL HISTOLOGY (2)** Structure and function of animal tissues 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.
- 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 processes 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) A lecture course treating the structure, properties, and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Prerequisite: CH 242.
- BL 371 **BIOCHEMISTRY LABORATORY (1)** (CH 371) Laboratory techniques and representative experiments in biochemistry. Prerequisite: BL 370/CH 370.
- 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. A variety of independent studies, including an internship program with the Cincinnati Zoo.
- BL 398 **METHODS OF BIOLOGICAL RESEARCH I (1-2)** The gathering and interpreting of experimental data from living organisms. Projects vary depending on faculty advisor. Prerequisites: senior standing or 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.

## Medical Technology (MD)

*Staff:* SR. CHARTERS, *program director*

*Adjunct Clinical Instructors:* DR. CABANAS, DR. CARTER, MS. ELFERS, MR. KNEPP, DR. MAISSON, MS. O'RORKE-RUSH, MS. PATER

- MD 110 **INTRO MED LAB SCIENCE**  
 MD 111 **INTRO MED LAB SCIENCE - LAB**  
 MD 120 **URINALYSIS**  
 MD 125 **CLIN MICROSCOPY/URIN**  
 MD 220 **CLINICAL CHEMISTRY**  
 MD 250 **HEMATOLOGY & HEMOSTASIS**  
 MD 251 **HEMATOLOGY & COAGULATION**  
 MD 252 **HEMATOLOGY**  
 MD 262 **MICROBIOLOGY**  
 MD 265 **CLIN MICROBIOLOGY**  
 MD 270 **MED BACTERIOLOGY**  
 MD 280 **SEROLOGY**  
 MD 290 **TOXICOLOGY**  
 MD 300 **LAB MANAGEMENT**  
 MD 315 **MEDICAL MYCOLOGY**  
 MD 318 **RENAL FUNCTION**  
 MD 320 **IMMUNOLOGY**  
 MD 322 **DIAG PARASITOLOGY**  
 MD 325 **MYCOLOGY & VIROLOGY**  
 MD 335 **CLINICAL PATHOLOGY**  
 MD 331 **IMMUNOHEMATOLOGY**  
 MD 355 **IND STUDY**

## Radiologic Technology (RT)

Staff: MS. ENDICOTT, *program director*; DR. WINTZINGER, M.D., *medical director*

*Assisted By:* MS. BORGEMENKE, MS. CASSIDY, MS. HIRT, MR. GASKIN, MR. KELLY, MS. NASH, MS. TAPKE

- RT 100 **MEDICAL TERMINOLOGY** (1) Medical word roots, stems, prefixes and suffixes. Common medical abbreviations.
- RT 102 **NURSING PROCEDURES** (1) Nursing concepts as applied to radiology. Basic patient care and emergency procedures.
- RT 103 **RADIOGRAPHIC POSITIONING I** (2) Didactic and laboratory instruction in radiographic positioning of the structures and organs of the human body.
- RT 104 **RADIOGRAPHIC POSITIONING II** (2) Continuation of RT 103.
- RT 105 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE I** (2) Basic concepts of radiation protection, the process of radiographic image production, and the specific equipment accessories used to produce high quality images.
- RT 106 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE II** (1) Controlling and influencing factors of radiographic quality.
- RT 107 **RADIATION PROTECTION AND BIOLOGY** (1) How to use ionizing radiation in a safe and prudent manner, maximum permissible doses, effects of ionizing radiation on living tissue.
- RT 110 **RADIOGRAPHIC PRACTICUM I** (1) Radiographic clinical competency training and evaluation, Tuesdays and Thursdays during the fall semester at an affiliate hospital (16 hours/week).
- RT 111 **RADIOGRAPHIC PRACTICUM II** (1) Continuation of RT 110, spring semester.
- RT 112 **RADIOGRAPHIC PRACTICUM III** (3) Continuation of RT 110, summer semester, Monday through Friday (3 months, 40 hours/week).
- RT 201 **PATHOLOGY** (1) Study of diseases and the radiographic evaluation of the disease processes.
- RT 203 **SPECIAL PROCEDURES** (2) Special radiographic procedures including angiography. Contrast media.
- RT 205 **PRINCIPLES OF RADIOGRAPHIC EXPOSURE III** (1) Radiographic technique charts and designs. Exposure conversion problems. Anode cooling and tube rating.
- RT 210 **GENERAL RADIOGRAPHY** (2) Specialized radiographic positioning procedures including radiographic anatomy.
- RT 211 **EQUIPMENT AND MAINTENANCE** (1) Design uses and maintenance of specialized radiographic equipment.
- RT 212 **RADIOGRAPHIC PRACTICUM IV** (2) Advance radiographic clinical competency training and evaluation, fall semester on Mondays, Wednesdays and Fridays at an affiliate hospital (24 hours/week).
- RT 213 **RADIOGRAPHIC PRACTICUM V** (2) Continuation of RT 212, spring semester.
- RT 214 **RADIOGRAPHIC PRACTICUM VI** (3) Continuation of RT 212, summer semester, Monday through Friday (3 months, 40 hours/week).
- Full schedule available in the program brochure. Call 745-3358.

## THE DEPARTMENT OF CHEMISTRY

The Department of Chemistry in cooperation with the Departments of Biology and Physics, offers several bachelor degrees and programs:

The Bachelor of Science in Chemistry

The Bachelor of Science in Chemical Science

The Bachelor of Science in Applied Chemistry, Science - Engineering Program

The Bachelor of Science in Natural Sciences (for premedical and pre dental students)

The Bachelor of Science in Applied Natural Science (pre dental or podiatric medicine students)

The Bachelor of Science in Teaching Chemistry and General Science - in cooperation with the Department of Education

Prepharmacy Program

### THE BACHELOR OF SCIENCE IN 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/her thesis and amounts to a beginning course in research.

Departmental requirements for a major include satisfactory completion of:

1. 44 semester hours in the major including:

a. CH 110, 111, 112, 115, 230, 232, 235, 237, 239, 240, 241, 242, 243, 260, 261, 280, 281, 290, 330, 349, 390, and electives.

b. CH 398, 399 - A senior research project culminating in a written thesis.

2. 13 semester hours in mathematics and computer science: MT 170, 171, 221, and CS 124.

3. 8 semester hours of university physics: PH 108, 105, 110, and 107.

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.

### THE BACHELOR OF SCIENCE IN 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.

The degree program requires:

1. 31-32 semester hours in the major.

2. College Physics - PH 104, 105, 106, and 107.

3. MT 149 and 150, which fulfill the university mathematics requirement.

Specific program requirements are indicated in the block schedule brochure. Substitutions can be made with the permission of the Chair of the Department. 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.

## BACHELOR OF SCIENCE IN APPLIED CHEMISTRY

### Xavier University - University of Cincinnati Cooperative

#### Science - Engineering Programs

This course of study is designed to provide a broad education in the physical sciences, mathematics, liberal arts, and specialized training in Metallurgical or Chemical Engineering. (This program is also available for students in fields related to Physics. See the Applied Physics program).

#### I. Academic Degrees

Upon completion of the requirements as specified below, the student will be awarded a BS in 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. Requirements

Requirements for the major include satisfactory completion of:

1. 26 semester hours of Chemistry including: CH 110, 111, 112, 115, 230, 232, 235, 237, 239, 240, 241, 242, 243, and 330.
2. 24 semester hours of mathematics and computer science.
3. 14 semester hours of physics.
4. 42 semester hours of liberal arts courses.
5. 30 semester hours of engineering courses (University of Cincinnati).

Coursework during the first two years is exclusively at Xavier University, at both Xavier and the University of Cincinnati during the third year, and only at the University of Cincinnati for year four.

After three years, some students choose to remain at Xavier to complete their program. Individual arrangements are made for the fourth year and a degree in Applied Chemistry is awarded.

## THE BACHELOR OF SCIENCE IN NATURAL SCIENCES

### (For Premedical and Pre dental Students)

The Natural Sciences curriculum for premedical and pre dental students presents a liberal arts program with emphasis on those sciences required for an excellent background for subsequent studies in medicine, dentistry, and 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 health professional, but majoring in Natural Sciences is not a requirement for admission to a health profession. If another major is chosen, the student should seek advice from a member of the Committee for Health Sciences, the Chair of the major 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:

1. 20 semester hours in biology (General Biology, Zoology, Embryology, Vertebrate Physiology, and Genetics);
2. 21 semester hours in chemistry (General, Physical/Analytical, and Organic);
3. 8 semester hours in physics;
4. an additional 10 semester hours in a science concentration;
5. PS 101 General Psychology, which fulfills a social science elective.

\* "Medical School Admission Requirements" published by the Association of American Medical Colleges, or "Admission Requirements of U.S. and Canadian Dental Schools" published by the American Association of Dental Schools.



## BACHELOR OF SCIENCE IN APPLIED NATURAL SCIENCE

### Accelerated Programs - Professional Schools of Dentistry and Podiatry

This course of study provides an accelerated curriculum for students interested in continuing with professional education at an institution entering into a joint degree program with Xavier. Degree requirements are met by satisfactory completion of three years study at Xavier University plus one year at the professional school. Consultation with the Health Sciences Committee is essential to select the proper sequence of specific courses needed to meet Xavier requirements and those for admission to the professional schools: School of Dentistry, Case-Western University; School of Podiatric Medicine, Barry University; and Ohio College of Podiatric Medicine.

During the sophomore or junior year the student must take the appropriate national tests and make application to the professional school. The BS (Applied Natural Science) will be awarded by Xavier University upon satisfactory completion of one year of study at the professional school. If the student is unable to enter a professional school, arrangements should be made with the Chair of the Health Sciences Committee to determine the senior year courses necessary for the completion of a BS degree.

## 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 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.

## Chemistry (CH)

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

*Laboratory Instructors:* DR. MAJETI, MS. STROUD, MR. TODD

### Lower Division Courses

- CH 102 **CHEMISTRY IN SOCIETY I (2)** A course for the non-science major. The relationship between chemistry and contemporary society.
- CH 103 **CHEMISTRY IN SOCIETY I LABORATORY (1)** Chemical experimentation which illustrates the applications described in CH 102.
- CH 104 **CHEMISTRY IN SOCIETY II (2)** A continuation of CH 102 including the treatment of drugs, air and water pollution, disease, and chemotherapy.
- CH 105 **CHEMISTRY IN SOCIETY 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) 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. Co-requisite: CH 110.
- CH 112 **GENERAL CHEMISTRY II** (3) A continuation of CH 110. Subjects include thermodynamics, equilibrium, acids and bases, kinetics, redox processes, and transition metal chemistry. Prerequisite: CH 110.
- CH 113 **GENERAL CHEMISTRY II LABORATORY** (2) A continuation of CH 111. The laboratory work includes qualitative and quantitative inorganic analysis. 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) 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 course for the non-science major. Chemical and physical principles underlying photography are presented.
- CH 125 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I LABORATORY** (1) Exemplification of principles taught in CH 124.
- CH 126 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II** (2) A continuation of CH 124 applying the principles to black and white photographic processes.
- CH 127 **CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II LABORATORY** (1) A continuation of CH 125.
- CH 151 **ANALYTICAL CHEMISTRY** (1) Lecture and Laboratory course. 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) 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) 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.
- 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. Prerequisite: CH 237.
- CH 240 **ORGANIC CHEMISTRY I** (3) 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. Prerequisite: CH 240.
- CH 243 **ORGANIC CHEMISTRY II LABORATORY** (1) Continuation of the laboratory work of CH241 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. Prerequisite: CH 260.
- 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) (BL 370) A lecture course treating the structure, properties, and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Prerequisite: CH 242.
- CH 371 **BIOCHEMISTRY LABORATORY** (1) (BL 371) 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 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 CH398. 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.

## THE DEPARTMENT OF CLASSICS

The Department of Classics offers two bachelor degrees, the Bachelor of Arts in Classics and the Bachelor of Arts in Classical Humanities. In addition, the department plays a major role in the Honors Bachelor of Arts degree. For this degree, see page 62 in Special University Programs.

### THE BACHELOR OF ARTS IN 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 society 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.

### THE BACHELOR OF ARTS IN 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 24 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.

## Classics

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

### 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. (EN 130).

- CL 142 **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. (EN 142).
- CL 146 **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. (EN 146).

#### Upper Division Courses

- CL 202 **HISTORY OF ANCIENT GREECE (3)** The prehistoric period to the Hellenistic Age. (GK202, 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 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 251 **GREEK ARCHAEOLOGY (3)** The major monuments of Greek antiquity explored as a backdrop to the art, history, and literature of ancient Greece.
- CL 252 **ROMAN ARCHAEOLOGY (3)** The major monuments of Roman antiquity explored as a backdrop to the art, history, and literature of ancient Rome.
- 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 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 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* or *Antigone*.
- GK 262 **EURIPIDES (3)**.
- GK 331 **THUCYDIDES (3)**.
- 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)

#### Lower Division Courses

- 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.
- 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 153 **VERGIL: AENEID VII-XII (3)**.

#### 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 231 **HORACE: ODES (3)**.
- LT 251 **VERGIL: AENEID (3)**.
- LT 261 **ROMAN COMEDY (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 356 **ROMAN SATIRE (3)**.
- LT 388 **HISTORY OF LATIN LITERATURE (3)**.
- LT 391 **LUCRETIUS (3)**.
- LT 397 **SPECIAL STUDY** Credit to be arranged. Latin poetry.
- LT 398 **SPECIAL STUDY** Credit to be arranged. Latin prose.
- LT 399 **SENIOR COMPREHENSIVE REVIEW (2-3)**.

## THE DEPARTMENT OF COMMUNICATION ARTS

The Department of Communication Arts offers a Bachelor of Arts degree with majors in four areas: Public Relations, Electronic Media, Organizational Communication, and Advertising. An Associate of Arts degree is available in Electronic Media, Public Relations, and Organizational Communication. For information on the Associate degrees, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS IN COMMUNICATION ARTS

The Communication Arts major will help students understand the communication process, develop essential skills, and form positive attitudes toward the role that, as educated adults, they will play in society. Emphasis on basic skills in written and spoken communication permeates all four CA majors: public relations, electronic media, organizational communication, and advertising.

In order to complete all requirements for the degree, students should formally declare one of the four departmental majors by the end of their freshmen year. Departmental guidance is necessary to ensure proper sequencing of classes. Proficiency in writing skills is required in all

courses, and continued improvement in writing, speaking, and word processing skills is expected. All CA majors are required to take at least one writing course and one speaking course. In addition, students weak in writing ability will be required to take CA 206 Effective Writing.

Many students within the department work closely with the university's television production studio and its FM radio station, WVXU. The television studio is very active in program production for cable television and industrial usage. The radio station broadcasts to the tri-state area from its new facilities and has received national recognition for its work. Both facilities utilize students in a number of roles and encourage the development of high professional standards.

Students enrolled in the Communication Arts Department must take a minimum of thirty credit hours of CA courses for graduation. The courses required for the four majors are:

Advertising - CA 101 or 260, 237, 251, 356, 359, 360, 361, 365, six hours of CA electives.

Electronic Media - CA 101 or 260, 218, 219, 221, 232 or 233, 331 or 332, 12 hours of CA electives.

Organizational Communication - CA 101, 200, 202, 211, 260, 263, 303, 306, six hours of CA electives.

Public Relations - CA 101 or 260, 237, 251, 253, 254, 352, 359, 360, six hours of CA electives.

## Communication Arts (CA)

*Staff:* MR. ANDERSON, *chair*; DR. DAILY, DR. FINCH, MR. HAGERTY, MR. SCHICK, MR. SMITH,

*Academic Staff:* MS. MIMS, MS. PEARCE, MS. WELKER

*Assisted by:* MR. ALAN, MS. ANDERSON, MR. BROERING, MS. CHOUTEAU, MR. CLARK, MR. FELD, DR. FLOREZ, FR. FLYNN, MR. GRUBER, MR. HILL, MS. JORDAN, DR. K. KING, MS. KROUSS, MS. KUHLMAN, MR. LANGE, MR. MARCH, MR. MASTRIANI, MS. MBEKER-ARCHER, MR. MUELLER, DR. POHLMAN, MR. SAMUELS, MR. SCHREIBER, MS. SLAUGHTER, FR. THEPE, MR. TIPTON, MR. TRAYNOR, MR. ZAHN

### Basics

- CA 101 **ORAL COMMUNICATION** (3) Speech fundamentals as applied to public speaking and listening skills.
- CA 105 **INTRODUCTION TO THEATRE** (3) Designed to acquaint students with the operation and administration of professional theatre.
- CA 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 in a specific play.
- CA 108 **DIRECTING FOR THE STAGE I** (3) A practical course exploring the artistry and technique of the stage director. Work required on mainstage productions.
- CA 200 **INTERPERSONAL COMMUNICATION** (3) Understanding of and classroom practice in effective communication between persons.
- CA 201 **ORAL INTERPRETATION OF LITERATURE** (3) A study and performance of the oral interpretation of the major genres of literature: prose, poetry and drama.
- CA 203 **COMMUNICATION THEORY** (3) Nature, purpose, scope, and process of communication. Models, learning, language, and certain theories.
- CA 204 **SURVEY OF MASS MEDIA** (3) Models and processes of mass communication, including electronic media, advertising, film, records, etc.
- CA 206 **EFFECTIVE WRITING** (3) Creative solutions to writing problems in a variety of practical and theoretical situations. Primarily designed for CA majors.
- 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, motion, editing, light, acting, 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 television and motion pictures.
- CA 214 **FILM CRITICISM** (3) Cultivating criteria for judging films from viewing and analysis. Leading theories studied.
- CA 215 **NON-FICTION FILM** (3) Development of the non-fiction film from Flaherty to "cinema of truth." Current documentaries on controversial topics will be stressed.
- CA 244 **ARGUMENTATION AND DEBATE** (3) Practice in the skill of reasoned argumentation, research and analysis through the debate activity.
- CA 263 **GROUP DYNAMICS** (3) Dynamic and participative strategies in group process skills. Learn by participating and doing.
- 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.
- CA 299 **SPECIAL STUDY** Credit to be arranged (1,2,3). Applicable to all CA majors.
- CA 303 **PERSUASION** (3) A study in the process nature of persuasion in various settings: one-to-one, mass audience, written and oral.
- CA 330 **LAW AND ETHICS OF MASS COMMUNICATION** (3) Important ethical and legal issues which affect contemporary mass communication.

#### Electronic Media

- CA 218 **FUNDAMENTALS--RADIO-TELEVISION** (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 219 or approval of advisor.
- CA 221 **VIDEO PRODUCTION AND TECHNOLOGY** (3) Technology and operation of video equipment including cameras, switcher, audio, character generator, VTRs, lighting and associated equipment. Basic video production techniques (studio and field) including 3/4" editing.
- CA 222 **BROADCAST MANAGEMENT** (3) Study of station management, organization, and operational techniques. Prerequisite: CA 218.
- CA 223 **TELEVISION DIRECTING** (3) Procedures and techniques of the director. Focus on developing creativity in context of directing in front of; behind the camera; control room. Prerequisite: CA 221.
- CA 224 **ADVANCED TELEVISION PRODUCTION** (3) Students design, develop, write and produce scripted programs and segments. Focus on production values contributing to a professional quality program. Prerequisite: CA 221.
- CA 225 **RADIO-TV PROGRAMMING** (3) The practical and theoretical world of programming in electronic media. 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 advisor.
- CA 232 **RADIO LAB** (3) Advanced experience in production and public radio operations-WVXU. Prerequisites: CA 218, 219.
- CA 233 **TELEVISION LAB** (3) Experience in TV production or research. Prerequisites: CA221.



- CA 240 **NEWS REPORTING (3)** Speech and event coverage, research, interviewing, and other techniques associated with covering local events under deadline pressure.
- CA 241 **RADIO-TV NEWS WRITING (3)** Introduction to the styles and formats of broadcast news writing.
- CA 242 **RADIO REPORTING AND PERFORMANCE (3)** Gathering and reading of news, in-person and telephone interviews. News delivery styles. "Air-check" tape. Lab.
- CA 245 **TELEVISION LIGHTING (3)** Provides students with opportunities to address a wide variety of lighting challenges. Students work in the studio and in the field on specific advanced lighting techniques. Prerequisite: CA 221.
- CA 331 **INTRODUCTION TO BROADCAST WRITING (3)** Survey of writing styles used in the broadcast industry, including advertising, journalism, and script writing.
- CA 332 **INTRODUCTION TO BROADCAST JOURNALISM (3)** Survey of the structures and principles of radio and television news reporting and writing.
- CA 337 **VIDEO POST-PRODUCTION (3)** Provides a working knowledge of advanced post-production equipment operation and technique. A/B Time Code Editing, switcher effects, electronic graphics and video paint system operation. Prerequisite: CA 221 or approval of instructor.
- CA 342 **INTRODUCTION TO VIDEO GRAPHICS (3)** Emphasizes the creative elements of conceptualization, generation and 2D animation within a high resolution paint system. Includes integration of paint system with live/tape video and character generation. No previous computer experience necessary.
- CA 343 **TELEVISION PROGRAM DEVELOPMENT (3)** Examines the design, development, and pre-production of professional level programming. Emphasis on critical thinking, organization, creative imagination, industry standards, communication strategies, and media ethics.
- CA 344 **TELEVISION NEWS PRODUCTION (3)** Introduction to the process of assembling and producing local television news programs.
- CA 345 **TELEVISION SPORTS REPORTING (3)** A practical examination of television sports coverage on the local level. What is covered, how it is covered and why it is covered. Includes production, reporting, writing, videography, editing, on-the-air presentation, programming, play-by-play, and promotion.
- CA 346 **TELEVISION ON-CAMERA PERFORMANCE (3)** Basic skills, techniques and procedures for on-air talent. Intensive training to develop a professional level of performance for a variety of programming including: news, public affairs, talk shows and commercials.

#### Public Relations

- CA 237 **PRINCIPLES OF PUBLIC RELATIONS (3)** An overview of public relations concepts, functions, and strategies.
- CA 251 **ADVERTISING/PUBLIC RELATIONS IN MODERN SOCIETY (3)** Philosophical and practical importance of advertising and public relations in the context of society. Prerequisite: CA 237 or permission of instructor.
- CA 253 **TECHNIQUES OF PUBLICITY (3)** The design and management of publicity programs. Prerequisite: CA 237 and CA 352.
- CA 254 **PUBLIC RELATIONS MANAGEMENT (3)** Public relations as a management function in business, service organizations, and government. Prerequisite: CA 237 and CA 352.
- CA 352 **PUBLIC RELATIONS WRITING (3)** Development of writing skills used in all aspects of public relations.
- CA 359 **COMMUNICATION RESEARCH TECHNIQUES (3)** Techniques used in the collection and analysis of data. Pre-requisite: CA 254 or CA 365.
- CA 360 **INTRODUCTION TO ADVERTISING (3)** A survey of the advertising process within the framework of modern marketing activities.

**Organizational Communication**

- CA 202 **ORGANIZATIONAL COMMUNICATION (3)** Employee communication policy, methods and techniques relative to business and industry.
- CA 211 **ART OF THE FILM (3)** Film as a modern art form, treating sound, motion, editing, light, acting, director's style, and film analysis.
- 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 process skills. Learn by participating and doing.
- CA 302 **ADVANCED ORGANIZATIONAL COMMUNICATION (3)** Study of current issues and research in organizational communication.
- CA 303 **PERSUASION (3)** A study in the process nature of persuasion in various settings: one-to-one, mass audience, written and oral.
- CA 306 **WRITTEN COMMUNICATION IN BUSINESS (3)** Basic written communication in business. Emphasis to be placed on memos, letter writing and reports.
- CA 317 **TECHNICAL WRITING (3)** An examination of those particular writing skills used in the development of training materials and instructional/technical manuals.

Students may elect to take courses in related areas such as advertising, marketing and management.

**Advertising**

- CA 356 **COMMUNICATION GRAPHICS (3)** The methods and procedures of the graphic designer, including an introduction to desktop publishing.
- CA 360 **INTRODUCTION TO ADVERTISING (3)** A survey of the advertising process within the framework of modern marketing activities.
- CA 361 **CREATIVE CONCEPTS AND DESIGN IN ADVERTISING (3)** The design of advertising campaigns, from the development of the creative concept to the design and production of the finished product. Pre-requisite: CA 356 or permission of instructor.
- CA 365 **ADVERTISING MANAGEMENT (3)** The management of advertising with special focus on the decision making process. Pre-requisite: CA 361.

**Internships**

Internships are available to advanced students only, on application to and approval of advisor before registration. They require approximately 150 hours of work during a 15 week semester.

- CA 318 **INTERNSHIP IN ORGANIZATIONAL COMMUNICATION I (3).**
- CA 319 **INTERNSHIP IN ORGANIZATIONAL COMMUNICATION II (3).**
- CA 333 **INTERNSHIP IN ELECTRONIC MEDIA I (3).**
- CA 334 **INTERNSHIP IN ELECTRONIC MEDIA II (3).**
- CA 368 **INTERNSHIP IN PUBLIC RELATIONS I (3).**
- CA 369 **INTERNSHIP IN PUBLIC RELATIONS II (3).**
- CA 370 **INTERNSHIP IN ADVERTISING I (3).**
- CA 371 **INTERNSHIP IN ADVERTISING II (3).**

**Educational Media**

- CA 290 **AUDIOVISUAL COMMUNICATION (3) (ED 290).**
- CA 291 **VISUAL COMMUNICATION DESIGN (3) (ED 291).**
- CA 293 **INSTRUCTIONAL TV PRODUCTION (3) (ED 687).**

## THE DEPARTMENT OF ENGLISH

The Department of English offers the Associate of Arts, the Bachelor of Arts and the Master of Arts in English degrees. For information on the Associate degree, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS IN 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 education, journalism, editing, publishing, and other communications fields. It is also a fine preparation for a variety of business careers and for graduate school in business and, with appropriate science courses, for medical school.

English majors are required to take:

EN 115, 116, 221, 222, and 203;

A course in Shakespeare;

One upper-level course in British literature before the contemporary period;

One upper-level course in American literature before the contemporary period;

Three upper-level English electives, and;

Senior majors are required to complete a Senior Seminar (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 regarding specific requirements for teacher certification.

### THE MASTER OF ARTS IN ENGLISH

The program for the Master of Arts degree in English is designed to develop critical, expository, and research skills; a critical and historical understanding of literature and language, and a working knowledge of current theories of interpreting and evaluating literary texts.

The student chooses one of two programs:

Plan A: 30 semester hours of course work, 12 of which must be in 500-only courses, and 3 more of which must be either 500-only or the 500 option in a 200/500 or 300/500 course. Plan A is recommended for most students.

Plan B: 24 semester hours of course work, 12 of which must be in 500-only courses, plus a written thesis, which, when approved, earns 6 hours of credit. This thesis must be written under the guidance of a member of the English Department and must demonstrate the student's ability to do research and original critical analysis.

The following courses are required by both plans:

EN 512 - Literary Theory

EN 527 - Shakespeare's Major Plays

Either EN 503 - History of the English Language, or

EN 506 Linguistics

A 500-level course on women or minority authors.

The remaining courses are English electives, which must be approved by the department chair.

During study for the M.A., students must demonstrate reading knowledge of a foreign language. At the close of their studies, they must pass a written comprehensive examination based on fourteen works of literature and literary theory. This list is revised every two years. The comprehensive is given in December and July.

Students seeking admission to the graduate program in English are expected to have a 3.0 average in their undergraduate English courses. Applicants should have excellent writing skills and a strong background in the humanities but need not be undergraduate English majors.

Courses are offered in the evening for the convenience of part-time students.

## English (EN)

*Staff:* DR. GETZ, *chair*; FR. CONNOLLY, DR. CRAMER, DR. FINKELSTEIN, DR. FONTANA, MR. GLENN, DR. SOUSA, DR. THOMAS, MR. WESSLING, DR. WILLIAMS

*Assisted by:* MR. BARTH, MR. CAHILL, MS. CHENG, SR. FLEMING, MS. FLOTTMAN, MR. GORDON, MR. P. HEDDEN, MR. HENSON, MS. JEFFERSON, MR. KORAL, MR. MARKIEWICZ, MS. TIMBERLAKE

### Lower Division Courses

- EN 100 **BASIC ENGLISH** (3).  
 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. 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.

The following lower division courses are introductory literature courses for non-majors.  
 Prerequisite: EN 101 or EN 115.

- EN 121 **STUDIES IN POETRY** (3).  
 EN 122 **STUDIES IN DRAMA** (3).  
 EN 124 **STUDIES IN FICTION** (3).  
 EN 127 **INTRODUCTION TO LITERATURE** (3).  
 EN 128 **STUDIES IN BLACK LITERATURE** (3).  
 EN 129 **STUDIES IN MINORITIES' AND WOMEN'S LITERATURE** (3) Introductory course for Minorities' and Women's Studies Minor.  
 EN 130 **STUDIES IN EPIC** (3) (CL 130).  
 EN 132 **STUDIES IN WOMEN'S LITERATURE** (3).  
 EN 142 **CLASSICAL TRAGEDY** (3) (CL 142).  
 EN 146 **CLASSICAL COMEDY AND SATIRE** (3) (CL 146).

### Upper Division Courses

Prerequisite: EN 101 or EN 115

- EN 200 **ADVANCED COMPOSITION FOR TEACHERS** (3) (ED 200) Current theories on the teaching of writing in elementary school. Instruction and practice in expository writing.  
 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. Required of English majors.  
 EN 204 **TEACHING AND RESEARCH IN WRITING** (3) Current theories on the teaching of writing in secondary school. Instruction and practice in expository writing.  
 EN 206 **LINGUISTICS** (3) (ED 206) Contemporary theory concerning the nature and origin of language. Phonology, morphology, syntax, and cultural linguistics.  
 EN 208 **WRITING INTERNSHIP** (3) Available only by arrangement with department chair.  
 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 221 **POETRY** (3) An intensive critical and historical study of British and American poetry. Required of English majors.

- EN 222 **RHETORIC II: THEORY & TEXT** (3) Study of contemporary literary theory and its application to selected texts. Required of English majors.
- EN 238 **NEWSWRITING** (3) (CA 238) Principles and practice of researching, writing, and editing news stories.
- EN 251 **WORLD FICTION** (3) Study of fiction from countries other than England and the United States. Includes non-Western writers.
- EN 255 **THE COMIC SPIRIT IN WORLD DRAMA** (3) Dramatic comedy from various world literatures. Reading in theory of comedy.
- EN 263 **SCIENCE FICTION** (3) A critical and generic approach to science fiction and fantasy narratives.
- EN 265 **LITERARY MONSTERS** (3) The monster as symbolic figure from Dante to the twentieth century.
- EN 266 **SEMINAR: LITERARY ILLNESS** (3) An exploration of illness as metaphor in literature from various cultures and periods.
- EN 269 **MYTH IN WORLD LITERATURE** (3) An examination of myth and archetype in literature from ancient times to the twentieth century. Includes non-Western writers.
- EN 270 **LITERATURE OF WAR AND PEACE** (3) The representation and interpretation of war and peace primarily in European and American literature.
- EN 275 **MARXISM AND LITERATURE** (3) Marxist literary theory and its application to particular texts and literary-historical problems.
- EN 276 **FEMINISM AND LITERATURE** (3) Feminist literary criticism: its methods, goals, and impact. Application of theory to texts of different genres, periods, nations.
- EN 291 **MODERN JEWISH FICTION** (3) The narrative tradition of European and American Jewish writers from the late nineteenth century to the present.
- EN 294 **MAJOR BLACK WRITERS** (3) Study of black authors from around the world with emphasis on African, Caribbean, and British Commonwealth writers.
- EN 295 **BLACK AMERICA SINCE 1865** (3) (HS 365) Examination of historical and literary texts by black Americans from 1865 through the mid-1960s.
- EN 297 **MODERN ANGLO-IRISH LITERATURE** (3) Poetry, drama, and fiction by a variety of authors including Yeats, O'Casey, and Joyce.
- EN 310 **CHAUCEER: THE CANTERBURY TALES** (3).
- EN 312 **MEDIEVAL ENGLISH LITERATURE** (3) Critical and cultural study of *Beowulf*, *Sir Gawain*, and other important texts.
- EN 325 **SHAKESPEARE'S MAJOR PLAYS** (3).
- EN 326 **SHAKESPEARE: HISTORIES AND COMEDIES** (3).
- EN 327 **SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES** (3).
- EN 328 **SEMINAR: SHAKESPEARE** (3).
- EN 330 **SEVENTEENTH-CENTURY LITERATURE** (3) The poetry and prose of the 17th century from Donne to Milton.
- EN 341 **THE AGE OF EXPERIENCE: 1660-1798** (3) British poetry, drama, and fiction including works by Dryden, Pope, Swift, Defoe, and Sterne.
- EN 350 **BRITISH ROMANTIC LITERATURE** (3) Poetry and selected non-fiction prose from 1780 to 1830.
- EN 362 **VICTORIAN WRITING** (3) British 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.
- EN 381 **THE AMERICAN RENAISSANCE: 1830-1865** (3) Textual and cultural study of Transcendentalism, the American romance, and other writing of this period.
- EN 382 **AMERICAN REALISM: 1865-1915** (3) Textual and cultural study of various genres from the Civil War to the eve of Modernism.
- EN 383 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1915-1945** (3) American poetry and fiction in the context of the revolution in Western art.

- EN 385 **AMERICAN GOTHIC LITERATURE** (3) Texts of terror and horror in American literature of the 19th and 20th centuries.
- EN 386 **CONTEMPORARY AMERICAN FICTION** (3).
- EN 388 **AFRO-AMERICAN LITERATURE** (3) Textual and cultural study of Afro-American writing from the 18th century to the present.
- EN 393 **CONTEMPORARY AMERICAN POETRY** (3) The poetry of Oppen, Zukofsky, Olson, Spicer, Duncan, and others.
- EN 396 **MAJOR WOMEN AUTHORS** (3).
- 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.

#### Graduate Courses

- EN 503 **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 510 **CHAUCER: MAJOR WORKS** (3).
- EN 511 **LANGUAGE OF THE HUMANITIES** (3) Critical study of topic-, audience-, and author-directed discourse. Intensive practice in writing. (HU 511).
- EN 512 **LITERARY THEORY** (3) Current theory about the nature of literature and interpretation.
- EN 527 **SHAKESPEARE'S MAJOR PLAYS** (3).
- EN 551 **ENGLISH ROMANTIC POETS** (3).
- EN 560 **STUDIES IN VICTORIAN AUTHORS** (3).
- EN 565 **STUDIES IN LITERARY GENRE: THE DRAMATIC MONOLOGUE** (3) Analysis of nineteenth and twentieth-century examples of this genre in poetry and fiction.
- EN 570 **STUDIES IN MODERN BRITISH LITERATURE** (3).
- EN 572 **MODERN DRAMA** (3).
- EN 574 **WOMEN WRITERS ON WAR** (3) Study of women in personal and historical struggles as seen in various literary genres.
- EN 576 **FEMINISM AND LITERATURE** (3).
- EN 583 **AMERICAN LITERATURE AND THE MODERNIST REVOLT: 1915-1945** (3).
- EN 586 **CONTEMPORARY AMERICAN FICTION** (3).
- EN 587 **LOS ANGELES IN FICTION AND FILM** (3) Literary and cultural study of selected Los Angeles novels and films from West to Bukowski.
- EN 593 **CONTEMPORARY AMERICAN POETRY** (3).
- EN 699 **MASTER'S THESIS** (6).

## The Department of History

The Department of History offers the Associate of Arts, the Bachelor of Arts and the Master of Arts in History degrees. For information on the Associate degree, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS IN HISTORY

The history major provides an excellent foundation for a wide variety of career choices. The study of history encourages one to examine closely the institutions, ideas, and systems which shape our world, and through acquaintance with civilizations different from our own in time or culture, it provides valuable comparative frames of reference.

History makes a unique contribution to a liberal education. It requires the attainment of a sympathetic appreciation of events and developments seen, not in isolation, but as part of a complex process. The study of history encourages depth of understanding through the

development of analytic and critical skills. It trains one to seek valid conclusions that are based on all available sources of information. The study of history, therefore, prepares students to be successful in a wide variety of careers and professions. The history major is available with the Business Minor for those who wish it.

History majors must complete:

1. HS 143, HS 144 and a European History I and II sequence (these should be taken in the sections designated for History majors);
2. Five 200-399 level electives;
3. Three 400-499 level seminar courses.

## THE MASTER OF ARTS IN HISTORY

The Master of Arts in History at Xavier is offered with variations to meet the needs of two types of students. The Research MA, with greater emphasis on historiography and research techniques, provides preparation for the student who plans to work toward the PhD. The Non-research MA is designed for those such as secondary or elementary school teachers who desire a broader range of course work. However, the Non-research program will ordinarily not prevent the student from pursuing further graduate studies in history.

Applicants are expected to have a substantial undergraduate background in the study of history, though it is not necessary to have completed a major in the field. The Department Chair may make successful completion of certain undergraduate courses a prerequisite for admission to the program.

Requirements:

1. Each candidate must, early in the program, designate with the approval of the Chair both an area of concentration (3 to 6 courses) and a minor field (2 to 3 courses). The faculty who teach those areas become the MA candidate's examiners.
2. Candidates must complete at least half their course work in courses numbered 500 or above. The remainder of the course work will be taken in advanced undergraduate level courses.
3. After completing the required course work (or during the final semester of that work) the candidate must take a written comprehensive examination covering course work in the area of concentration and the minor field. To pass the comprehensive examination the candidate must earn a grade of B or better from each examiner in both the area of concentration and the minor field. Candidates may take the comprehensive examination twice.
4. The Research MA is pursued subject to departmental approval after the candidate has successfully completed at least two courses at the 500-699 level. The candidate must successfully complete twenty-four semester hours of course work, pass the comprehensive examination, and complete a research thesis which must be successfully defended before the departmental examiners.
5. The Non-research MA requires that the candidate successfully complete thirty semester hours of course work, pass the comprehensive examination, and submit to the Department Chair a major paper, accepted in a research seminar, which gives evidence of scholarly work.

## History (HS)

*Staff:* DR. GRUBER, *chair*; DR. ALAIMO, DR. FAIRFIELD, DR. FORTIN, FR. GRAHAM, DR. KORROS, FR. LAROCCA, DR. SIMON

*Assisted by:* MR. BALSUKUS, DR. CONNELL, MR. UHRIG, MR. WEISBROD

### Lower Division Courses

- HS 105 WORLD CIVILIZATIONS I (3).  
 HS 106 WORLD CIVILIZATIONS II (3).

- HS 128 **WAR AND PEACE IN WESTERN CIVILIZATION I** (3).  
 HS 129 **WAR AND PEACE IN WESTERN CIVILIZATION** (3).  
 HS 133 **WESTERN CIVILIZATION I** (3) A topical survey of Western Civilization from Greece to the Renaissance emphasizing aspects of political, social and cultural history.  
 HS 134 **WESTERN CIVILIZATION II** (3) A topical survey of European history from the 16th century to the 20th century emphasizing aspects of political, social, and economic and intellectual history.  
 HS 135 **MEDIEVAL SOCIETY AND CULTURE I** (3) A topical survey of European civilization from the Age of Augustus until and including the Renaissance emphasizing political, social and economic history.  
 HS 136 **EUROPE, 1500-1848 II** (3) A topical survey of European history from 1500 until the Congress of Vienna emphasizing political, social and economic history.  
 HS 143 **UNITED STATES TO 1865 I** (3) Study of the United States from its colonial beginnings through the Civil War, with particular emphasis on the American Revolution, the formative years of the new nation, and the coming of the Civil War.  
 HS 144 **UNITED STATES FROM 1865 II** (3) Study of the United States from the aftermath of the Civil War to the present, with particular emphasis on Reconstruction, impact of industrialization and urbanization, foreign policies, and post-World War II American culture.  
 HS 151 **LATIN AMERICA: COLONIAL PERIOD I** (3).  
 HS 152 **LATIN AMERICA: MODERN PERIOD II** (3).

#### Upper Division Courses

- HS 202 **HISTORY OF ANCIENT GREECE** (3).  
 HS 206 **HISTORY OF ANCIENT ROME** (3).  
 HS 215 **RENAISSANCE** (3).  
 HS 216 **THE REFORMATION** (3).  
 HS 218 **THE ENGLISH REFORMATION** (3).  
 HS 222 **REVOLUTIONARY EUROPE** (3).  
 HS 225 **EUROPE 1848-1918** (3).  
 HS 226 **EUROPE SINCE 1914-1945** (3).  
 HS 227 **FRANCE: REVOLUTION** (3).  
 HS 228 **MODERN FRANCE** (3).  
 HS 230 **FRANCE: THE THIRD REPUBLIC** (3).  
 HS 231 **NAZI GERMANY** (3).  
 HS 232 **ZIONISM AND MODERN ISRAEL** (3).  
 HS 240 **TUDOR ENGLAND** (3).  
 HS 242 **ENGLAND SINCE 1867** (3).  
 HS 243 **MODERN IRELAND** (3).  
 HS 244 **STUART ENGLAND** (3).  
 HS 246 **CINCINNATI GOVERNMENT AND POLITICS** (3).  
 HS 247 **CINCINNATI HISTORY** (3).  
 HS 249 **INTERNATIONAL ORGANIZATION** (3).  
 HS 253 **HISTORY OF MEXICO** (3).  
 HS 254 **ARGENTINA, BRAZIL, CHILE, URUGUAY** (3).  
 HS 255 **THE CARIBBEAN AND CENTRAL AMERICA** (3).  
 HS 256 **GRAN COLOMBIA** (3).  
 HS 257 **EIGHTEENTH CENTURY ENGLAND** (3).  
 HS 259 **CONTEMPORARY LATIN AMERICA** (3).  
 HS 263 **TERRORISM, INTERNATIONAL LAW AND POLITICS** (3).  
 HS 264 **WOMEN IN MODERN EUROPEAN HISTORY** (3).  
 HS 266 **BISMARCK AND THE UNIFICATION** (3).  
 HS 267 **NAZI GERMANY** (3).  
 HS 268 **MODERN GERMANY** (3).  
 HS 283 **TRADITIONAL JAPAN** (3).



- HS 284 JAPAN SINCE 1868 (3).
- HS 285 TRADITIONAL CHINESE CIVILIZATION (3).
- HS 286 MODERN CHINA (3).
- HS 296 NINETEENTH CENTURY ENGLAND (3).
- HS 301 COLONIAL AMERICA (3).
- HS 302 FORMATIVE YEARS OF THE REPUBLIC, 1763-1789 (3).
- HS 303 THE NEW NATION, 1783-1825 (3).
- HS 304 THE AGE OF JACKSON (3).
- HS 310 CIVIL WAR AND RECONSTRUCTION (3).
- HS 313 UNITED STATES SINCE 1932 (3).
- HS 314 SOCIAL UNREST IN RECENT AMERICA (3).
- HS 332 BEER, BASEBALL, AND POPULAR CULTURE (3).
- HS 335 SURVEY OF RUSSIAN HISTORY I (3).
- HS 336 RUSSIA SINCE 1801 (3).
- HS 338 USSR SINCE 1917 (3).
- HS 350 INTELLECTUAL HISTORY OF THE UNITED STATES (3).
- HS 357 RELIGION IN AMERICAN LIFE (3).
- HS 365 BLACK AMERICA SINCE 1865 (3).
- HS 369 WOMEN IN AMERICAN HISTORY (3).
- HS 398 READINGS AND RESEARCH (3).
- HS 400- UNDERGRADUATE SEMINARS AND SPECIAL TOPIC COURSES (3).
- HS 499

#### Graduate Courses

- HS 529 SEMINAR: TUDOR ENGLAND (3).
- HS 530 SEMINAR: STUART ENGLAND (3).
- HS 532 MODERN FRANCE (3).
- HS 538 USSR 1917-1954 (3).
- HS 550 WAR, CULTURE AND SOCIETY (3).
- HS 598 DIRECTED READINGS (3).
- HS 601 SEMINAR: COLONIAL AMERICA (3).
- HS 602 THE AMERICAN REVOLUTION (3).
- HS 603 SEMINAR: EARLY NATIONAL PERIOD (3).
- HS 632 THE CIVIL WAR (3).
- HS 658 URBAN AMERICA (3).
- HS 699 MASTER'S THESIS (1-6).

### THE MASTER OF ARTS IN HUMANITIES

"THE HUMAN SEARCH FOR MEANING AND VALUES" 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)

**THE QUEST FOR MEANING AND VALUES** (3), satisfied by completing an approved course in either philosophy or theology.

**LITERATURE AND THE HUMAN IMAGINATION** (3), 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 DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

The Department of Mathematics and Computer Science offers two degrees: the Bachelor of Science in Mathematics, and the Bachelor of Science in Computer Science.

### THE BACHELOR OF SCIENCE IN MATHEMATICS

The Department of Mathematics offers a program intended to develop a student's capacity to undertake intellectually demanding mathematical tasks by emphasizing general mathematical reasoning through mastery of varied subject matter. Upon successful completion of the program the student should be well prepared for graduate studies in mathematics and related disciplines, for teaching at the secondary level and for immediate employment by industry in a position which makes use of the talents and abilities of one trained in the mathematical sciences.

Mathematicians continue to be in demand to fill both traditional and developing roles in society. Opportunities abound for researchers in all areas of mathematics. Engineering, computer science, and the physical sciences require individuals with mathematical training. 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 aware of the value of mathematics, not only as a tool for problem solving, but also for developing critical and analytical skills.

The requirements for the degree in mathematics are:

1. Introductory courses in calculus, discrete mathematics, linear algebra, and computer science;
2. Additional courses in algebra, including both MT 240 Linear Algebra and MT 250 Abstract Algebra;

3. Additional courses in analysis, including MT 215 Differential Equations, MT 221 Calculus III (multivariable calculus), and MT 270 Real Analysis;
4. At least four courses, chosen from the set of electives. These electives vary in their contribution to specific career objectives. Before registering for any elective, a math major is required to state those objectives to the department. Specifically, students intending graduate study in mathematics should carefully select the elective courses and should ordinarily include both MT 260 Topology and MT 280 Complex Analysis.
5. The senior comprehensive examination requirement is fulfilled by successful performance on the Graduate Record Examination in Mathematics.

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 with French or German. The science requirement is satisfied by one of the three following sequences:

- University Physics I and II
- General Chemistry I and II
- General Biology, General Zoology

## THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Computer technology has revolutionized society's methods for processing information and making decisions. The growth in the use of computers has increased the demand for professionals in computer science. Typical computer careers include programing and 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.

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:

1. A background in algebra sufficient to begin a serious study of calculus and computer science.
2. A minimum of 36 semester hours in computer science.
3. 23 semester hours in technical areas, including mathematics and physics courses.
4. University physics, without the laboratory.
5. The upper division electronics with laboratory.
6. Seniors must fulfill the comprehensive requirements.

Some students elect to complete a second major in mathematics or some other discipline; some others choose the business major or a minor in a related field.

Computer Science majors are urged to become active members of the Xavier University student chapter of the Association for Computing Machinery.

## Mathematics and Computer Science

*Staff:* MR. TRUNNELL, *chair*; DR. BERRY, MR. BRUGGEMAN, DR. COLLINS, DR. DANIEL, DR. DELANBY, FR. ISENECKER, DR. LARKIN, DR. OTERO, DR. PULSKAMP, DR. SNODGRASS, MR. VANDELL, DR. WALKER

*Academic Staff:* MS. DINKHELLER, MS. HOLLAND

*Assisted by:* MR. BUTZ, MS. CONNELLY, MS. DORAN, FR. FITZSIMMONS, DR. FLASPOHLER, BR. LOHREY, MR. PUTHOFF, MS. STELTENPOHL, MR. THOMAS, MS. VARNER, MR. WILLIAMS, MS. WILKINS

## Mathematics (MT)

### 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, exponents. Linear and 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 145 **MATHEMATICS OF THE LIBERAL ARTS** (3) A brief history of mathematics. Applications of mathematics to art, music, literature, and philosophy.
- 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) Fundamentals of algebra, inequalities, absolute value. Identities. Solutions of equations and graphs for polynomial, rational, algebraic, exponential and logarithmic functions.
- 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, exponential growth and decay, functions of several variables, partial derivatives, optimization problem, multiple integrals. Prerequisite: MT 150 or equivalent.
- MT 156 **GENERAL STATISTICS** (3) Descriptive statistics, probability distributions, confidence intervals and hypothesis testing, regression and correlation, Chi-square tests, analysis of variance, non-parametric tests. Prerequisite: MT 150 or equivalent.
- MT 158 **LOGIC AND SETS** (3) Introduction to systematic thinking. Includes sets, structure of statements in ordinary language, truth tables, analysis of arguments. Validity vs. truth.
- MT 169 **TRIGONOMETRY AND ALGEBRA** (3) The circular functions: sine, cosine, tangent. Other transcendental functions. Linear, polynomial and rational functions. Inequalities, absolute values, identities and solving equations.
- MT 170 **CALCULUS I** (4) The derivative, techniques and applications. Limits and continuity. The integral with applications. Numerical methods. Prerequisite: MT 169 or equivalent.
- MT 171 **CALCULUS II** (4) Transcendental functions. Techniques of integration. Elementary differential equations. Conics. Polar coordinates. Sequences and series. Prerequisite: MT 170.

### Upper Division Courses

- MT 204 **ELEMENTARY LINEAR ALGEBRA** (3) Geometry of 2- and 3-dimensional space. Systems of linear equations. Matrices and matrix arithmetic. Determinants, linear transformations, eigenvalues and eigenvectors, quadratic forms. Prerequisites: MT 169 or equivalent, MT 208.
- MT 208 **ELEMENTS OF DISCRETE MATHEMATICS** (3) Logic, set theory, relations and functions, mathematical induction, counting principles, recurrence relations, number systems. Prerequisite: CS 170.

- MT 215 **DIFFERENTIAL EQUATIONS** (3) Ordinary differential equations: first order, second and higher order with constant coefficients. Numerical methods. Series solutions. Laplace transforms. Applications. Prerequisite: MT 221.
- MT 221 **CALCULUS III** (4) Vectors, lines and planes. Functions of several variables, partial derivatives and applications, gradient and directional derivative. Multiple integrals, line integrals, Green's Theorem. Prerequisites: MT 171.

Enrollment in the following courses numbered 230 or above require completion of two semesters of calculus and department approval.

- MT 231 **GREAT MOMENTS IN MATHEMATICS** (3) Some of the highlights in the historical development of mathematics with special attention given to the invention of non-Euclidean geometry and its importance for mathematics and Western thought.
- MT 237 **TOPICS IN LOGIC** (3) The propositional calculus and the predicate calculus of one variable investigated as a mathematical system. (MEd and secondary certification students only).
- MT 238 **TOPICS IN STATISTICS** (3) Elementary probability, descriptive statistics, estimation and inference, correlation and regression. (MEd and secondary certification students only).
- MT 239 **TOPICS IN ALGEBRA** (3) Introduction to the study of groups, rings and fields. (MEd and secondary certification students only).
- MT 240 **LINEAR ALGEBRA** (3) Vector spaces, bases, linear transformations, matrices and inverses, change of basis. Systems of linear equations, determinants, eigenvalues and eigenvectors. Prerequisite: MT 204.
- MT 250 **ABSTRACT ALGEBRA** (3) Groups, isomorphism, homomorphism, rings, ideals, fields. Prerequisite: MT 240.
- MT 260 **ELEMENTARY TOPOLOGY** (3) Metric spaces, topological spaces, separation axioms, convergence, compactness, connectedness.
- MT 270 **REAL ANALYSIS** (3) 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 215, MT 221.
- MT 280 **COMPLEX ANALYSIS** (3) Complex numbers, analytic functions, complex integration, series representation of analytic functions, the calculus of residues. Prerequisite: MT 221.
- MT 303 **NUMERICAL METHODS** (3) (CS 303) Measures of accuracy, sources of error, function evaluation and approximation, systems of linear equations, non-linear equations, numerical differentiation and integration, and solutions to differential equations. Prerequisites: CS 170.
- MT 312 **MATHEMATICAL MODELING** (3) The synthesis, formulation and solution of various problems in applied mathematics and related fields.
- MT 315 **SURVEY OF GEOMETRIES** (3) Axiom systems, models and finite geometries, convexity, transformations, Euclidean constructions, and the geometry of triangles and circles. Introduction to projective and non-Euclidean geometries.
- MT 320 **MATHEMATICAL LOGIC** (3) Axiomatic development of propositional calculus, functional complete sets of operators, axiomatic development of the first order function calculus, the existential operator, the algebra of logic.
- MT 330 **THEORY OF NUMBERS** (3) Divisibility and primes, linear congruences, quadratic residues and reciprocity. Diophantine equations, multiplicative functions, distribution of primes.
- MT 331 **MATHEMATICAL STATISTICS I** (3) Probability, probability distributions, characteristics of distributions, sampling, estimation. Prerequisite: MT 221.
- MT 332 **MATHEMATICAL STATISTICS II** (3) Hypothesis testing, confidence intervals, regression, analysis of variance, nonparametric tests. Prerequisite: MT 331.

- MT 342 **Linear Programming** (3) Convex sets, simplex method, duality, the dual simplex, transportation and assignment problems, game theory, recent developments. Prerequisite: MT 204.
- MT 343 **LINEAR ANALYSIS** (3) Normed and inner product spaces. Hilbert space. Orthonormal sets and bases. Fourier expansions. Linear functionals, Hermitian and projection operators.
- MT 344 **APPLIED MODERN ALGEBRA** (3) Boolean algebra, lattice theory, coding theory. Prerequisite: MT 250.
- MT 350 **GRAPH THEORY** (3) Graphs, subgraphs, trees, isomorphism, Eulerian and Hamiltonian paths, planarity, digraphs, connectivity, matrix representations, chromatic number, circularity.
- MT 356 **APPLIED ANALYSIS I** (3) Vector analysis, Bessel functions, orthogonal sets of functions. Sturm-Liouville theory. Fourier series, integrals, and transforms. Prerequisites: MT 215 and MT 221.
- MT 357 **APPLIED ANALYSIS II** (3) Partial differential equations and boundary value problems, fast Fourier transform, numerical methods. Stieltzes integrals. Prerequisite: MT 356.
- MT 397 **SPECIAL READING AND STUDY FOR ADVANCED STUDENTS** Credit by arrangement.

### Computer Science (CS)

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 110 **COMPUTERS: AN OVERVIEW** (3) Basic introduction to computers without programming. Terminology, technology, history, communications, databases. Information gathering. Selected topics. Hands-on experience.
- CS 113 **FORTRAN PROGRAMMING** (3) Introduction to programming in FORTRAN. Non-scientific applications stressed. Prerequisite: Secondary math proficiency.
- CS 124 **"BASIC" PROGRAMMING** (1) Introduction to the Xavier timesharing system, elements of the "BASIC" language, programming elementary problems. Prerequisite: Secondary math proficiency. Students who have completed IS 100 should not take CS 124.
- CS 130 **COMPUTER PROGRAMMING - BASIC** (3) Problem solving, algorithm development and structured programming. Elementary data manipulation, machine organization. Prerequisite: Secondary math proficiency.
- 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. Data manipulation, procedures, functions, arrays, fundamental algorithms, and files. Prerequisite: Secondary math proficiency.
- CS 171 **COMPUTER SCIENCE II** (3) (IS 366) 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.
- CS 175 **"C"**(3) Structured programming and problem solving. Data manipulation, functions, arrays, structures, pointers, and files. Fundamental algorithms. Prerequisite: Proficiency in a computer language.

## Upper Division Courses

- CS 213 **NUMERICAL COMPUTING** (3) Data representations and computer arithmetic; accuracy, limitations and pitfalls. Sources of error; computational roundoff, analytical truncation and conditioning, propagation. Programming selected algorithms. Prerequisites: CS 170 or equivalent, and MT 150 or 170.
- CS 244 **ELECTRONICS II** (2) (PH 244) Digital components and circuits, microcomputer architecture and machine language programming, interfacing circuits. Prerequisite: PH 242.
- CS 245 **ELECTRONICS LABORATORY** (1) (PH 245) Laboratory accompanies CS 244.
- CS 255 **ARCHITECTURE AND ASSEMBLY LANGUAGE** (3) (IS 360) 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.
- 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) (MT 303) Accuracy, function evaluation and approximation, systems of linear equations, non-linear equations, numerical differentiation and integration, solutions to differential equations. Prerequisites: CS 170, MT 171.
- 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 and disk management, networks and system security. Prerequisites: CS 255, 325. Corequisites: CS 244, 245.
- CS 345 **LOGIC PROGRAMMING - PROLOG** (3) Programming in Prolog: facts, rules, backtracking, and the cut operator, lists, grammar rules, sorting, graph searching, symbolic differentiation, the unification algorithm, reduction algorithms. Prerequisite: CS 325.
- 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 **SYSTEMS DEVELOPMENT PROJECT** (3) (IS 452) See IS 452. Prerequisite: consent of instructor.
- CS 354 **DATA BASE ARCHITECTURE** (3) Comparison of the hierarchical, network and relational approaches with a focus on the relational. Data manipulation languages, data independence, data consistency, data validity, internal design. Prerequisite: CS 325.
- CS 355 **COMPILER/PROGRAMMING LANGUAGE DESIGN** (3) Study of grammars, syntax, semantics, interpreters, and compilers. FSM's and PDA's. Construction of a simple language and a compiler/interpreter. Prerequisites: CS 255, 325.
- CS 365 **MICROCOMPUTERS** (3) Microcomputer architecture, interrupts, machine and assembly language programming. Graphics. Networks and communication protocols. Prerequisites: CS 171, CS 255, MT 208.
- 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.**

## THE DEPARTMENT OF MODERN LANGUAGES

The Department of Modern Languages offers the Associate of Arts and the Bachelor of Arts in French and the Associate of Arts and the Bachelor of Arts in Spanish. Courses are also available in German. For information on the Associate degrees, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS FRENCH or SPANISH

The programs for majors in French and Spanish offered by the Department of Modern Languages provide an opportunity for the development of proficiency in the spoken and written language as well as a study of the literature and civilization in areas where the language is spoken.

Requirements for modern language (French or Spanish) majors are:

1. placement test to determine which lower division courses are required.
2. completion of 27 hours of upper division courses:
  - a. French majors must include: FR 200, 202 or 203.
  - b. Spanish majors must include: SP 200, 201, 202 or 203, and at least 2 courses in literature/culture. A maximum of 6 semester hours of appropriate coursework taught in English may be counted toward the major with the approval of the Spanish faculty.
3. senior comprehensive examination in the language of the major during the final semester before graduation

Students are encouraged to combine a major in French or Spanish with a second major or a related minor.

Undergraduates who wish to be certified as teachers of French or Spanish are advised to consult with the Chair of the Department and with the Office of Teacher Education in Elet Hall regarding specific requirements for teacher certification.

### BACHELOR OF ARTS FRENCH or SPANISH WITH A BUSINESS MINOR

Students follow the above requirements and also take the required business courses listed on page 63 of this catalog.

### ENGLISH LANGUAGE AND AMERICAN CULTURE PROGRAM (ELACP)

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 to four levels of study, each consisting of five classes which meet each weekday.

The courses offered include composition, grammar, reading/literature, listening, pronunciation, conversation, study skills and American culture. Courses taken at the regular intermediate level or above accrue credit toward graduation at Xavier University.

A separate brochure is available: (513) 745-3712.



## Modern Languages

*Staff:* MS. MC DIARMID, *chair*; MS. GODDARD, DR. HODGSON, DR. RECKER, DR. SANCHEZ, DR. VEGA

A placement test is administered to those students who took French, German, or Spanish in high school. The result determines the number of courses 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 French/Spanish majors must pass a senior comprehensive examination during the final semester.

### French (FR)

#### Lower Division Courses

- FR 111 ELEMENTARY FRENCH I (3).
- FR 112 ELEMENTARY FRENCH II (3) Prerequisite: FR 111 (unless waived).
- FR 121 INTERMEDIATE FRENCH I (3) Prerequisite: FR 112 (unless waived).
- FR 122 INTERMEDIATE FRENCH II (3) Prerequisite: FR 121 (unless waived).
- FR 123 INTRODUCTION TO BUSINESS FRENCH (3) (This course may be substituted for FR 122) Prerequisite: FR 121 (unless waived).

#### 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 FRENCH CONVERSATION (3).
- FR 203 FRENCH COMPOSITION (3).
- FR 210 FRENCH CULTURE AND CIVILIZATION (3).
- FR 215 BUSINESS FRENCH I (3).
- FR 220 SURVEY OF FRENCH LITERATURE I (3).
- FR 221 SURVEY OF FRENCH LITERATURE II (3).
- FR 230 THE MIDDLE AGES AND THE RENAISSANCE (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 239 FRENCH THEATRE (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 (unless waived).
- GR 121 INTERMEDIATE GERMAN I (3) Prerequisite: GR 112 (unless waived).
- GR 122 INTERMEDIATE GERMAN II (3) Prerequisite: GR 121 (unless waived).

#### 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 or 202.

- GR 200 ADVANCED GERMAN (3).

## Modern Languages

*Staff:* MS. MC DIARMID, *chair*; MS. GODDARD, DR. HODGSON, DR. RECKER, DR. SANCHEZ, DR. VEGA

A placement test is administered to those students who took French, German, or Spanish in high school. The result determines the number of courses 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 French/Spanish majors must pass a senior comprehensive examination during the final semester.

### French (FR)

#### Lower Division Courses

- FR 111 ELEMENTARY FRENCH I (3).
- FR 112 ELEMENTARY FRENCH II (3) Prerequisite: FR 111 (unless waived).
- FR 121 INTERMEDIATE FRENCH I (3) Prerequisite: FR 112 (unless waived).
- FR 122 INTERMEDIATE FRENCH II (3) Prerequisite: FR 121 (unless waived).
- FR 123 INTRODUCTION TO BUSINESS FRENCH (3) (This course may be substituted for FR 122) Prerequisite: FR 121 (unless waived).

#### 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 FRENCH CONVERSATION (3).
- FR 203 FRENCH COMPOSITION (3).
- FR 210 FRENCH CULTURE AND CIVILIZATION (3).
- FR 215 BUSINESS FRENCH I (3).
- FR 220 SURVEY OF FRENCH LITERATURE I (3).
- FR 221 SURVEY OF FRENCH LITERATURE II (3).
- FR 230 THE MIDDLE AGES AND THE RENAISSANCE (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 239 FRENCH THEATRE (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 (unless waived).
- GR 121 INTERMEDIATE GERMAN I (3) Prerequisite: GR 112 (unless waived).
- GR 122 INTERMEDIATE GERMAN II (3) Prerequisite: GR 121 (unless waived).

#### 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 or 202.

- GR 200 ADVANCED GERMAN (3).

## Modern Languages

*Staff:* MS. MC DIARMID, *chair*; MS. GODDARD, DR. HODGSON, DR. RECKER, DR. SANCHEZ, DR. VEGA

A placement test is administered to those students who took French, German, or Spanish in high school. The result determines the number of courses 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 French/Spanish majors must pass a senior comprehensive examination during the final semester.

### French (FR)

#### Lower Division Courses

- FR 111 **ELEMENTARY FRENCH I** (3).
- FR 112 **ELEMENTARY FRENCH II** (3) Prerequisite: FR 111 (unless waived).
- FR 121 **INTERMEDIATE FRENCH I** (3) Prerequisite: FR 112 (unless waived).
- FR 122 **INTERMEDIATE FRENCH II** (3) Prerequisite: FR 121 (unless waived).
- FR 123 **INTRODUCTION TO BUSINESS FRENCH** (3) (This course may be substituted for FR 122) Prerequisite: FR 121 (unless waived).

#### 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 **FRENCH CONVERSATION** (3).
- FR 203 **FRENCH COMPOSITION** (3).
- FR 210 **FRENCH CULTURE AND CIVILIZATION** (3).
- FR 215 **BUSINESS FRENCH I** (3).
- FR 220 **SURVEY OF FRENCH LITERATURE I** (3).
- FR 221 **SURVEY OF FRENCH LITERATURE II** (3).
- FR 230 **THE MIDDLE AGES AND THE RENAISSANCE** (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 239 **FRENCH THEATRE** (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 (unless waived).
- GR 121 **INTERMEDIATE GERMAN I** (3) Prerequisite: GR 112 (unless waived).
- GR 122 **INTERMEDIATE GERMAN II** (3) Prerequisite: GR 121 (unless waived).

#### 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 or 202.

- GR 200 **ADVANCED GERMAN** (3).

- GR 202 GERMAN 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 I (3) A chronological presentation based on genres and movements.  
 GR 221 INTRODUCTION TO GERMAN LITERATURE II (3).  
 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 294 SELECTED READINGS (3).  
 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 (unless waived).  
 SP 121 INTERMEDIATE SPANISH I (3) Prerequisite: SP 112 (unless waived).  
 SP 122 INTERMEDIATE SPANISH II (3) Prerequisite: SP 121 (unless waived).

### 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.

### For Non-native Spanish Speakers

- SP 200 ADVANCED SPANISH (3).  
 SP 201 READINGS IN SPANISH (3) Literary and non-literary texts.  
 SP 202 SPANISH CONVERSATION (3).  
 SP 203 SPANISH COMPOSITION (3).  
 SP 210 SPANISH CIVILIZATION (3).  
 SP 211 LATIN-AMERICAN CIVILIZATION (3).  
 SP 220 INTRODUCTION TO HISPANIC LITERATURE (3) A introduction to literature with a chronological study of genres and movements and analysis of excerpts from representative authors.  
 SP 221 SPANISH LITERATURE & CIVILIZATION I (3) A chronological presentation of Spanish literature and civilization  
 SP 222 SPANISH LITERATURE & CIVILIZATION II (3) A continuation of SP 221.  
 SP 223 SPANISH LITERATURE & CIVILIZATION III (3) A continuation of SP 222.  
 SP 227 SPANISH-AMERICAN LITERATURE & CIVILIZATION I (3) A chronological presentation of Spanish-American literature and civilization.  
 SP 228 SPANISH-AMERICAN LITERATURE & CIVILIZATION II (3) A continuation of SP 227.  
 SP 229 SPANISH-AMERICAN LITERATURE & CIVILIZATION III (3) A continuation of SP 228.  
 SP 233 SPANISH LITERATURE OF THE GOLDEN AGE (3) Representative authors and genres of the 16th and 17th centuries.

- SP 236 NINETEENTH-CENTURY SPANISH LITERATURE (3) Representative authors and works of romanticism, realism and naturalism.
- SP 239 TWENTIETH-CENTURY SPANISH LITERATURE (3) Representative authors and genres from the Generation of 1898 to the present day.
- SP 240 HISPANIC POETRY (3) Representative Spanish and Spanish-American poets.
- SP 244 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE (3) Representative authors and genres.
- SP 245 TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE (3) Representative authors and genres.
- SP 395 DIRECTED STUDY Credit by arrangement. Individualized instruction.

#### For Teachers and Prospective Teachers

- SP 250 HISPANIC CULTURE I (2).
- SP 251 INTRODUCTION TO LATIN-AMERICAN HISTORY AND CULTURE (3).
- SP 300 HISTORY OF THE SPANISH LANGUAGE (3).
- SP 301 SPANISH LANGUAGE FOR TEACHERS (3).
- SP 325 TEACHING MODERN LANGUAGES (3).
- SP 395 DIRECTED STUDY Credit by arrangement. Individualized instruction.
- SP 398 GRADUATE RESEARCH: SPANISH (3) Research for the M.A.

#### For Native Spanish Speakers and Teachers

- SP 320 INTRODUCTION TO HISPANIC LITERATURE (3) An introduction to literature with a chronological study of genres and movements, and analysis of excerpts from representative authors.
- SP 330 PROSE OF THE GOLDEN AGE (3) Representative authors and prose works of the 16th and 17th centuries, such as *Lazarillo de Tormes* and *Don Quijote*.
- SP 331 POETRY AND DRAMA OF THE GOLDEN AGE (3) Representative poetry and drama of the 16th and 17th centuries by authors such as Lope de Vega, Tirso de Molina and Calderon de la Barca.
- SP 335 SPANISH ROMANTICISM (3) Representative authors of the Romantic period in Spain, such as Larra, Zorrilla and Becquer.
- SP 337 NINETEENTH-CENTURY SPANISH PROSE (3) Representative authors such as Galdos, Valera and "Clarín."
- SP 338 THE GENERATION OF 1898 (3) Representative authors such as Unamuno, Valle Inclan and Antonio Machado.
- SP 346 TWENTIETH-CENTURY SPANISH PROSE (3) Representative works of post-Civil War Spain from authors such as Delibes, Goytisolo and Martin Santos.
- SP 347 TWENTIETH-CENTURY SPANISH DRAMA (3) Representative authors and plays of pre- and post-Civil War Spain.
- SP 348 SPANISH POETRY (3) Representative Spanish poets.
- SP 354 SPANISH-AMERICAN LITERATURE: DISCOVERY AND COLONIZATION (3).
- SP 355 SPANISH-AMERICAN MODERNISM (3) Representative modernist authors of the late 19th and early 20th centuries, such as Ruben Dario.
- SP 356 SPANISH-AMERICAN PROSE I (3) Representative authors and works through the first half of the 20th century.
- SP 357 SPANISH-AMERICAN PROSE II (3) Representative authors and works since 1940.
- SP 358 SPANISH-AMERICAN DRAMA (3).
- SP 359 SPANISH-AMERICAN POETRY (3).
- SP 395 DIRECTED STUDY Credit by arrangement. Individualized instruction.

## THE DEPARTMENT OF MUSIC

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

### THE BACHELOR OF ARTS IN MUSIC

Students pursuing the Bachelor of Arts degree in music must complete 42 hours in the major, including:

1. MU 201-202, 210-211, 301-302, 303, 310-311, and 324.
2. 8 hours in applied music.
3. 4 semesters of participation in a vocal and/or instrumental ensemble.

In addition, each student must:

4. Pass a piano proficiency examination before the senior year.
5. Present a recital or write a thesis in major area of concentration during the senior year.

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.

### THE BACHELOR OF SCIENCE IN MUSIC EDUCATION

#### (Certification K-12)

Students pursuing the Bachelor of Science degree in music education must complete 52 hours in music and related music education courses, including:

1. MU 122, 201-202, 221-222, 301-302, 304, 310-311, 324-325, 326, 327, and 328.
2. 8 hours in applied music.
3. 4 semesters of participation in a vocal and/or instrumental ensemble.
4. Required education courses.

In addition, all music education majors must:

5. Pass a piano proficiency examination before the senior year.
6. Present a recital or write a thesis in major area of concentration during the senior year.

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.

## Music (MU)

*Staff:* DR. ROHRIG, *chair*; MR. SKEIRIK

*Assisted by:* MS. BEEBE, MR. BEZONA, MS. BUEL, MR. CAMPIONE, MS. DECKER, MR. DE FOOR, MR. DUERR, MR. GARDNER, MR. HINKLE, MS. HORN, MR. JOHNS, MS. KABAYAMA, MR. KEENE, MS. KOEPFLE, MS. MEIER, MR. MERCER, MS. MIESLE, MS. OLSEN, MR. PARR, MR. PRIOR, MS. ROMA, MS. SCOTT, MR. SWISHER, MS. TAYLOR, MR. THORNTON, MR. WOOLARD

## Lower Division Courses

- MU 100 **BASIC MUSIC THEORY (2)** Introduction to the rudiments of music theory for non-music majors including basic theoretical aspects of music such as notation of pitch, rhythm, scales, etc. Also emphasizes relationship between theoretical concepts and musical context. Credits may not be applied toward a music major.
- MU 101 **BASIC JAZZ PREPARATION (2)** The preliminary study of basic jazz theory and practices as well as the analysis, study and exercise of scales, chords and harmonic usage.
- 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 of the trends and styles, innovators and influential pioneers, and the evolution of the Jazz idiom in the 20th century.
- MU 115 **WOMEN IN MUSIC (3)** Historical survey of music by or involving women from medieval period to the present. Emphasis on women composers, but includes women as performers, teachers, patrons, and in the jazz and pop fields.
- MU 116 **AFRICAN-AMERICAN MUSIC (3)** Survey of Black music styles from 17th to 20th century; emphasis on African roots of this tradition and historical and socio-cultural contexts that gave birth to a Black music tradition.
- MU 117 **MUSIC AND HUMAN EXPERIENCE (3)** Introduction to major works of Music Literature focusing on shared human experiences and their interpretation in music.
- MU 118 **MUSIC: NOW! (3)** Covers the wide variety of music experienced in today's world including the rich heritage of music from the past as well as music from the contemporary American musical scene.
- 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.
- MU 155 **DANCE AND MOVEMENT I, II (1)** Technical aspects of dance through medium of
- MU 156 theatrical dance movement. Ideas and movement problems explored through rhythmic, stretching and body strengthening activities. Students with no dance exposure can participate to improve body coordination and natural aptitudes for dance.
- MU 157 **ADVANCED DANCE AND MOVEMENT I, II (1)** Continuation of MU 155-156.
- MU 158
- MU 175 **BUSINESS METHODS IN COMMERCIAL MUSIC (1)** Investigates the requirements and accepted practices in areas of live performance, studio recording, song writing, etc.; contracts, management, copyrights and other aspects.

## 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. Prerequisite: MU 101.

- MU 210 **SURVEY OF MUSIC LITERATURE I** (3) Introduction to the literature of music. Discussion of representative compositions from Early Middle Ages to the Classical period with emphasis on listening and rudimentary aural analysis of selected works. No prerequisite.
- MU 211 **SURVEY OF MUSIC LITERATURE II** (3) Continuation of MU 210. Discussion of representative compositions from the Romantic to the Contemporary style periods. No prerequisite.
- MU 221 **MUSIC IN THE SECONDARY SCHOOL** (2) Overview of role, and responsibility of music teacher. Vocal, instrumental, and general music education.
- MU 222 **METHODS AND MATERIALS IN THE SECONDARY SCHOOL** (2) Emphasis on instrumental and choral methods and materials. Practical guide for secondary music educator. Prerequisite: MU 221.
- MU 301 **THEORY III** (3) Continuation of MU 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 sightsinging examples from the standard literature, four part harmonic dictation, and more complex examples of melodic and rhythmic dictation.
- 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 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 340 **OPERA WORKSHOP** (2) An introduction to operatic performance including body movement, vocal and dramatic projection, audition procedures, and the musical and dramatic preparation and performance of operatic repertoire.
- MU 342 **JAZZ IMPROVISATION WORKSHOP** (2) An in-depth application of jazz and improvisation styles to the live performance situation. Prerequisite: MU 101 or equivalent.

The following four courses provide an understanding of techniques and teaching strategies of the various families of instruments. Designed for those interested in teaching music, they will lead toward basic performance competence and pedagogy.

- MU 351 **STRING TECHNIQUES** (1).  
MU 352 **WOODWIND TECHNIQUES** (1).  
MU 353 **BRASS TECHNIQUES** (1).  
MU 354 **PERCUSSION TECHNIQUES** (1).



- 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 411 **STUDIES IN MUSIC LITERATURE** (3) Survey of development and repertoire of vocal, choral or instrumental literature. Topics vary with need of curriculum design.
- MU 416 **STUDIES IN MUSIC HISTORY** (3) In-depth study of specific eras in the history of music or of major composers and their work.
- MU 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 hour per week merits one credit.

#### Courses in Applied Music

- MU 150 **PRIVATE LESSONS** (1)
- |          |           |             |               |
|----------|-----------|-------------|---------------|
| A. Piano | C. Voice  | E. Strings  | G. Brass      |
| B. Organ | D. Guitar | F. Woodwind | 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.
- MU 153 **CLASS GUITAR** (1) Group instruction in the basic guitar techniques.

#### 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.

## THE DEPARTMENT OF PHILOSOPHY

The Department of Philosophy offers the Bachelor of Arts degree in Philosophy.

### THE BACHELOR OF ARTS IN PHILOSOPHY

The major in philosophy is the appropriate course of study for a person intending to pursue graduate study in philosophy, and is 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.

The program of studies for students who choose philosophy as their major subject consists of 12 courses (36 credit hours): ethics, metaphysics, theory of knowledge, symbolic logic, British-American philosophy, any 3 history of philosophy courses 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.

## Philosophy (PL)

*Staff:* DR. COLELLA, *chair*; MS. BLAIR, DR. BONVILLAIN, DR. DUMONT, DR. GENDREAU, DR. W. JONES, DR. KRUSE, DR. NEELEY, FR. OPPENHEIM, DR. QUINN, DR. RETHY, DR. TALASKA

*Assisted by:* FR. BIERMAN, MS. KORCHOK, MS. KUNTZ, FR. SCHMIDT

### Lower Division Course

#### AREA I: ETHICS

- 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.

### Upper Division Courses

#### AREA II: METAPHYSICS

- PL 200 METAPHYSICS (3) Being and existence; change; limitation and participation of beings; principles and causes of being; categories and properties of being (unity, truth, goodness).

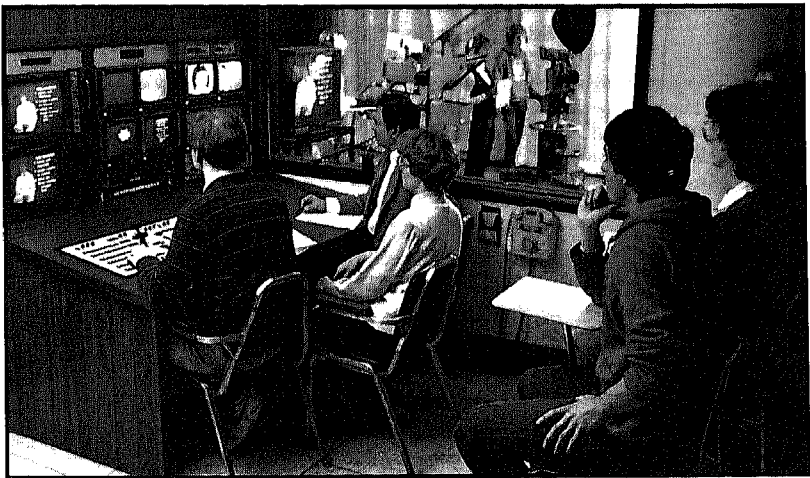
#### AREA III: THEORY OF KNOWLEDGE

- 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.
- 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 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 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 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 333 **PHILOSOPHY OF ART AND BEAUTY (AESTHETICS) (3)** Principal theories of beauty and contemplation, of art and creative intuition, of truth and symbolism of works of art.
- PL 334 **PHILOSOPHY OF WOMAN (3)** Application of philosophical method to a contemporary issue. Historical survey of philosophers' conceptions of woman.
- PL 335 **CONTEMPORARY 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 **NATURALLAW 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 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).



## THE DEPARTMENT OF PHYSICS

The Department of Physics offers two degrees: the Bachelor of Science in Physics, and the Bachelor of Science in Applied Physics

### THE BACHELOR OF SCIENCE IN PHYSICS

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. 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.

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.

In addition to the university core curriculum courses, the requirements for a Bachelor of Science in Physics include:

1. 46 hours of physics: PH 105, 107, 108, 110, 242, 243, 244, 245, 350, 351, 352, 364, 365, 366, 367, 372, 374, 376, 381, 395, 396, 398, 399
2. 15 hours of mathematics: MT 170, 171, 221, 215
3. 8 of chemistry: CH 110, 111, 112, 115

Specific requirements are modifiable for the needs and interests of each individual student.

### THE BACHELOR OF SCIENCE IN APPLIED PHYSICS

#### Xavier University - University of Cincinnati Cooperative Science - Engineering Program

This course of study is designed to provide a broad education in the physical sciences, mathematics, liberal arts, and specialized training for those students interested in Aerospace, Civil and Environmental, Electrical and Computer, Mechanical, Industrial, or Nuclear Engineering or Engineering Science. (This program is also available for students in fields related to Chemistry. See the Applied Chemistry program).

#### I. Academic Degrees

Upon completion of the requirements as specified below, the student will be awarded a Bachelor of Science in Applied Physics 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

36 hours of physics, 15 of mathematics, 3 of computer science, 8 of chemistry, and the liberal arts core requirements as specified for this program.

## 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. A B.S. in Applied Physics will be awarded upon the completion of 30 semester hours of engineering courses.

## 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 Physics is awarded.

## Physics (PH)

*Staff:* DR. MILLER, *chair*; DR. BRESSER, MR. HART, DR. TOEPKER, DR. YERIAN  
*Laboratory Technician:* MR. TIERNEY

### 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 PH 107 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 required to accompany PH 116.
- PH 118 **OUR UNIVERSE--THE SKY** (2) 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 **OUR UNIVERSE--ENERGY SOURCES AND USES** (2) An introductory course that surveys various forms of energy and studies practical, economical applications. Corequisite: PH 123.
- PH 123 **OUR UNIVERSE--ENERGY LABORATORY** (1) Accompanies PH 122.
- PH 134 **OUR UNIVERSE--LIGHT** (2) Fascinating introductory course using mirrors, lenses, photographic film, lasers, telescopes, and diffraction gratings are presented. Corequisite: PH 135.
- PH 135 **OUR UNIVERSE--LIGHT LAB** (1) Laboratory required to accompany PH 134.

### Upper Division Courses

- 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 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, PH 244 respectively (CS 245).
- PH 320 **WORKSHOP: EARTH SCIENCE** (2) (ED 421).
- 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 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.
- 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 **PHYSICS THESIS I** (1).
- PH 399 **PHYSICS THESIS II** (1).
- PH 410 **HANDS-ON DEVELOPMENTAL SCIENCE** (2) (ED 410).
- PH 411 **WORKSHOP: BASIC ELECTRONICS FOR TEACHERS** (2) (ED 411).

## THE DEPARTMENT OF THEOLOGY

The Department of Theology offers the Associate of Arts, the Bachelor of Arts and the Master of Arts in Theology degrees. For information on the Associate degree, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS IN 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 about 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, as well as a preparation for religious education and other forms of ministry. With appropriate counselling, a student can combine this major in the liberal arts 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 research paper on which the student will be examined by a faculty committee. Courses are distributed as follows:

1. 1 introductory course - TH 111 Introduction to Theology
2. 6 courses arranged for theology majors
3. 2 electives in specified areas of theology
4. 3 theology electives

### THE MASTER OF ARTS IN 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 further 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. 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.

#### 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.

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.



## Theology (TH)

*Staff:* FR. OVERBERG *chair*; DR. AHLGREN, FR. BRACKEN, FR. CARTER, DR. DEWEY, SR. GRAF, DR. GUDORF, DR. HILL, SR. KETTMAN, FR. KLEIN, DR. KNITTER, DR. MADGES, SR. MILLER

*Assisted by:* FR. BOKENKOTTER, SR. BROSNAN, MS. BRUNS, MS. FREY, SR. GERDEMAN, RABBI GOLDBERG, RABBI KAMRASS, FR. SCHMITZ, FR. TRAUB, FR. URMSTON

### 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.
- 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, how can Christians continue to speak about the uniqueness of Jesus? Explored against the background of Christian scripture/tradition and contemporary inter-religious dialogue.
- TH 209 **THE CHRISTIAN TRADITION I (3)** A study of the major themes of God, Jesus, Church, sacraments, faith, spirituality from the historical perspective. (For majors and other qualified students.)
- TH 210 **THE CHRISTIAN TRADITION II (3)** A continuation of TH 209.
- 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 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.
- TH 234 **BLACK CHURCH IN THEOLOGY (3)** An interior view into the Black theological experience. Need to look at theology from a Black perspective. Roots of the Black Church as its response to bigotry of white churches and society.
- TH 236 **THE CHRISTIAN IN THE WORLD (3)** The secularization process in history; secularization and secularity; relation of the sacred and the secular; the Christian's involvement in the world.

- TH 238 **WOMEN AND RELIGION** (3) History of Christian teachings on woman's nature and place, interplay of religion and feminism in the 19th and 20th centuries, emphasis on recent feminist theology.
- TH 247 **MYSTICISM AND SCIENCE** (3) The course will explore 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.).
- 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 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 306 **LIBERATION THEOLOGY** (3) 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) (SO 310, PS 310) 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.
- TH 311 **FAITH AND JUSTICE** (3) Relationship between Christian faith and social justice viewed in 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.

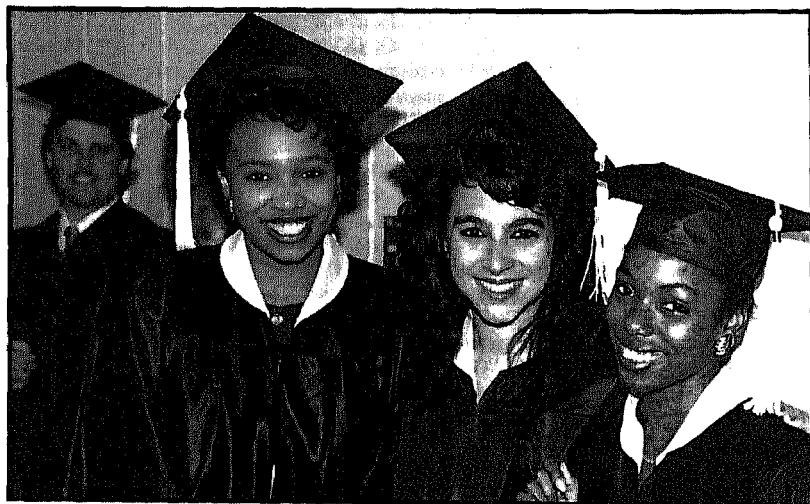
- TH 313 **CHRISTIAN SEXUAL ETHICS** (3) Ethical criteria Christians use in judging human sexuality from its origins throughout its development. Sex role socialization and common options in sexual behavior.
- TH 315 **CONTEMPORARY ETHICAL ISSUES** (3) Current issues in light of Christian faith. See course 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.
- 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 338 **RELIGIOUS EDUCATION: THEORY AND PRACTICE** (3) A study of religious education as an important form of pastoral ministry in the contemporary Church.
- 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) (CL 345) The Fathers of the first five centuries. The Church's defense against pagans and heretics. Confrontation with the Empire. Development of doctrine.
- TH 352 **JUDAISM: CUSTOMS, PRACTICES, BELIEFS** (3) A basic understanding of Judaism and its component parts. Brief overview of Jewish history and study 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) (HS 215) The late medieval church and its social context: the transition from a feudal and agrarian society to one urban and secular.
- TH 370 **THE REFORMATION** (3) (HS 216) Protestant, Catholic, and "Anabaptist" attempts to revitalize a Christianity insufficiently Christian.

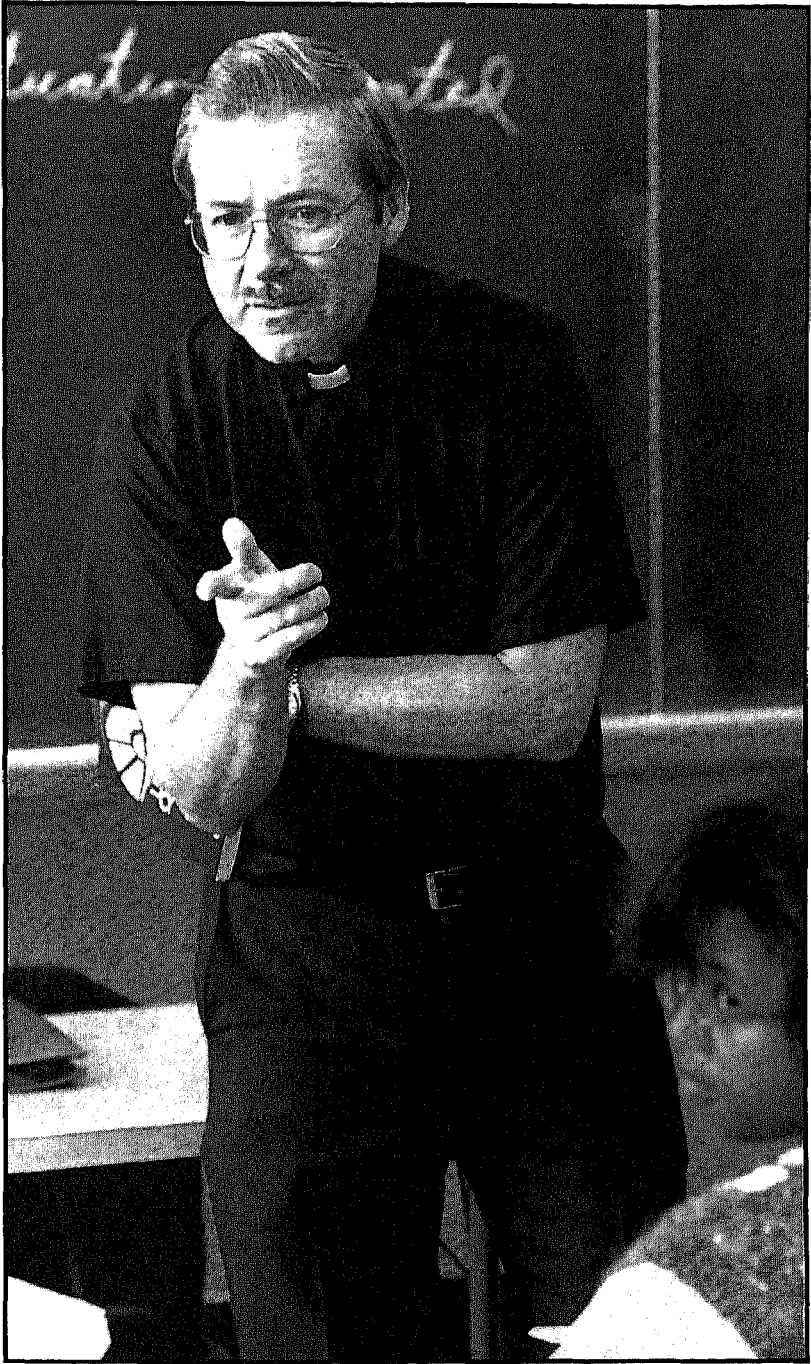
- TH 371 **BAROQUE CATHOLICISM** (3) (HS 217) Between Luther and Voltaire (1550-1789), Catholics faced a variety of challenges and opportunities. Among the controversies are: Galileo affair, rise of Jansenism, Chinese rites, suppression of the Jesuits.
- TH 372 **ENGLISH REFORMATION** (3) (HS 218).
- TH 373 **THE PAPACY** (3) (HS 219) 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.
- TH 376 **U.S. CATHOLICISM: PAST AND PRESENT** (3) The relationship between Roman Catholicism and the American ethos.
- TH 377 **THE CHURCH AND REVOLUTION** (3).
- TH 388 **THEOLOGY & ECOLOGY: THE LIBERATION OF LIFE** (3) 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.
- TH 389 **CHRISTIAN DOCTRINE TODAY** (3) A study of contemporary systematic issues or figures. (For majors and other qualified students.)
- TH 390 **SENIOR SEMINAR** (3) Study of theological methodologies and issues. (Required of and limited to theology majors and other interested and qualified students.)
- 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.
- 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) Dialogue on three levels with Paul, with our own traditional understandings of community, and our present communal experience.
- 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.
- 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.
- 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.
- TH 540 **MODERN CATHOLIC SOCIAL TEACHING** (3) Papal (and certain episcopal) social teaching since Leo 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: 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 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.
- TH 564 **KEY THEMES IN THE HISTORY OF CHRISTIAN THOUGHT** (3) Examination of how significant theologians in different centuries have dealt with major issues. 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.
- 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 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).





# DEGREE PROGRAMS AND COURSES

## COLLEGE OF BUSINESS ADMINISTRATION

The College of Business Administration offers degrees at the Associates, Bachelors, and Masters levels.

### THE ASSOCIATE DEGREE IN BUSINESS

The College of Business offers a two year degree in business. The program is evenly divided between general university core requirements and business courses. They are:

Course No.	Subject	Sem. Hrs.
AC 205, 206	Principles of Accounting I,II .....	.6
EC 205, 206	Microeconomic Principles, Macroeconomic Principles .....	.6
IS 100	Introduction to Information Systems .....	.3
DS 200	Business Statistics .....	.3
EC 301	Money & Banking .....	.3
LA 300	Legal Environment .....	.3
MG 305	Organizational Behavior .....	.3
MK 300	Principles of Marketing .....	.3
EN 101	English Composition .....	.3
MT 149	Elementary Functions .....	.3
MT 150	Calculus .....	.3
	Social Sciences .....	.3
	Humanities (3 hrs. must be a literature course) .....	.6
	Philosophy/Theology .....	.9
	Free Elective .....	.3



### Bachelor of Science in Business Administration Core

The Bachelor of Science in Business Administration is offered in the following majors: General Business, Accounting, Economics, Industrial Relations, Entrepreneurial Studies, Finance, 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 58-59 of this catalog. Requirements in the major are listed in the degree programs which follow this page. Brochures showing suggested sequences of courses for each major are available in departmental offices. College of Business Administration core curriculum requirements for all majors are as follows:

Course No.	Subject	Sem. Hrs.
AC 205, 206	Principles of Accounting I,II	6
EC 205, 206	Microeconomic Principles, Macroeconomic Principles	6
IS 100	Introduction to Information Systems	3
MK 300	Principles of Marketing	3
IR 301	Human Resources	3
FI 300	Business Finance	3
MG 305	Organizational Behavior	3
EC 300 or EC 301	International Trade & Business Environment, or Money & Banking	3
DS 200	Business Statistics	3
DS 250	Applied Quantitative Methods for Business	3
LA 300	Legal Environment	3
MG 499	Business Policy	3

#### NOTES:

- 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, DS 200 Business Statistics is waived.
- Many courses in the Business Core and in the various Business Majors have prerequisites. Students are advised to check the course listings in this catalog for these prerequisites.
- Ethical Business Decisions is the recommended Area IV Philosophy course.



## THE MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration Program at Xavier University is designed to meet the needs of potential and practicing executives. Xavier's MBA program offers a realistic approach to education, utilizing a balanced presentation of relevant theory combined with practical case study. A Xavier MBA is a study in participative learning: case analyses, lectures, group projects, and computer-based assignments and simulations. Faculty expertise, updated curriculum and contemporary methods of instruction enable Xavier MBA students to acquire the basic disciplines and skills of business. Students develop problem-solving and decision-making abilities and the capacity for continued learning.

MBA program applicants must take the Graduate Management Admission Test. Applicants need 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. Persons holding the PhD, MD, or JD degrees may be exempt from the GMAT.

Information regarding the MBA program may be obtained from the MBA director's office at (513) 745-3525.

It is the responsibility of the graduate student to become informed concerning all required regulations and procedures. 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. All MBA students are sent an "MBA Guide Book" from the MBA Office upon acceptance into the program and must abide by any additional regulations contained therein.

### MBA REQUIREMENTS

<i>Courses</i>	<i>Sem. Hrs.</i>	<i>Courses</i>	<i>Sem. Hrs.</i>
<b>Level I Coursework:</b>			
EC 501 Economic Analysis .....	4	MK 501 Marketing Concepts .....	3
AC 501 Financial Accounting .....	3	DS 501 Managerial Statistics .....	3
MG 502 Production Management .....	2	FI 501 Corporate Finance .....	3
MG 503 Business Communications .....	2	IS 501 Mg'rl Computer Applications ..	3
LA 500 Legal Environment .....	2	DS 503 Intro to Management Science ..	2

Level I of the MBA program is a series of required, introductory courses intended for the student with minimal or no previous coursework in the area. At the time of admission, a counselor will advise the student of needed Level I courses. Level I courses are limited to fully admitted MBA students.

#### Level II Coursework:

EC 601 Economic Environment .....	3	FI 601 Managerial Finance .....	3
AC 601 Managerial Accounting .....	3	DS 601 Cases & Techniques in	
MG 601 Organizational Behavior .....	3	Management Science .....	3
MK 601 Marketing Strategy .....	3		

The six required core courses in Level II provide comprehensive understanding of the basic disciplines relevant to management and the functional areas of business operation.

#### Business Electives

4 Business Electives .....

Elective courses provide the graduate student with the opportunity to concentrate in a discipline of specific interest or in a variety of disciplines through a general MBA. All students, including those choosing to study in a variety of business disciplines, are required to select a balanced program of study. For students choosing to concentrate in a particular discipline, at least nine semester hours of the required twelve elective semester hours of credit must be earned within their selected area of concentration. The following are possible areas of concentration\*:

Applied Business Economics	Marketing
Finance	Personnel
International Business	Taxation
Management Information Systems	

Students choosing to concentrate in one discipline are responsible for informing the MBA Office in writing of their intentions. Otherwise, it will be assumed that they do not elect a concentration. For students pursuing a general MBA, the twelve semester hours of elective courses can be selected from the disciplines that will be appropriate to his or her career goals.

\* Refer to the MBA Bulletin for specific concentration requirements.

**Capstone:**

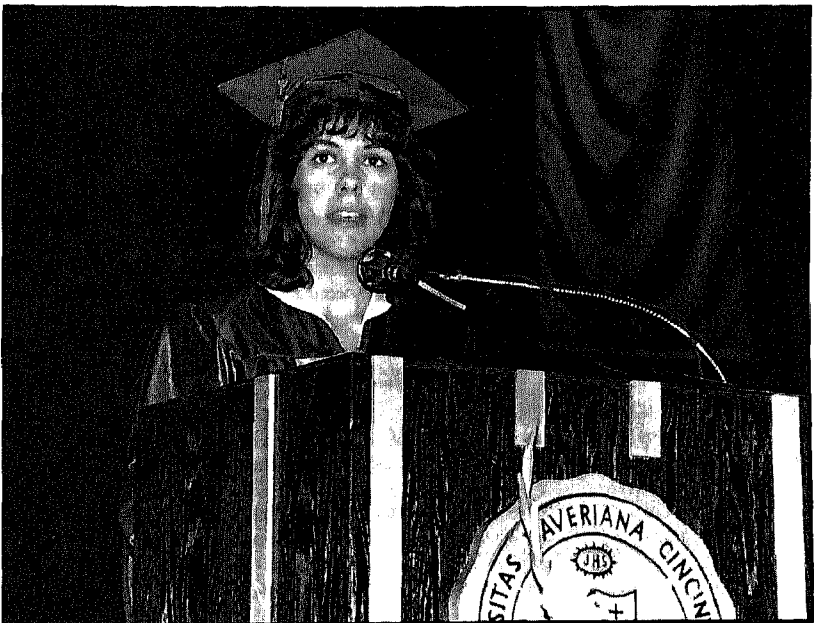
MG 699 Business Policy & Strategy . . . 3

Toward the end of their MBA program and after completing all core courses, students are required to complete the capstone course. This 3 semester hour course allows the student to integrate material from all required coursework.

### 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.



## THE DEPARTMENT OF ACCOUNTING AND LAW

The Department of Accounting and Law offers the Bachelor of Science in Business Administration in Accounting degree.

### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN ACCOUNTING

The program in accounting is designed to provide intensive education 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 help prepare students for the CPA and CMA examinations.

Students majoring in accounting must complete the following courses in the major:

AC 205,206	Principles of Accounting I, II
AC 301,302	Intermediate Accounting I, II
AC 311	Taxation
AC 321	Cost Accounting
AC 401	Advanced Accounting
AC 411	Accounting Information Systems
AC 421	Auditing

### Accounting and Law

*Staff:* MS. ALLEN *chair*; DR. DEVINE, MR. FIORELLI, MS. HILT, MR. MORELAND, MR. R. SCHUTZMAN, MR. SMITH, DR. SURDICK, MR. VANDERBECK, DR. WILLIS

*Academic Staff:* MS. VILA

*Assisted by:* MR. FELDMANN, MR. GILLEN, MR. GRIFFIN, MR. HISEY, MS. PURDON, MR. RESNICK, MR. J. SCHUTZMAN,

### Accounting (AC)

#### Lower Division Courses

- AC 205 **PRINCIPLES OF ACCOUNTING I** (3) Basic structure of accounting, accounting systems, accounting principles, and accounting for partnerships.
- AC 206 **PRINCIPLES OF ACCOUNTING II** (3) Corporate accounting; cash flow statement and statement analysis, cost and managerial accounting control, decision-making processes including cost and revenue concepts, managerial reports, and federal income taxes. Prerequisite: AC 205.

#### Upper Division Courses

- AC 301 **INTERMEDIATE ACCOUNTING I** (3) A broad background of accounting theory and related problems applicable to business enterprises. Prerequisite: AC 206.
- AC 302 **INTERMEDIATE ACCOUNTING II** (3) A continuation of AC 301, which is also a prerequisite.
- AC 311 **INTRODUCTION TO TAXATION** (3) Introduction to the Federal Revenue System and the taxation of individuals, corporations, partnerships, gifts, estates and trusts.
- AC 312 **TAXATION OF INDIVIDUALS** (3) Study of taxation in general with special emphasis on the Federal Revenue System and the individual taxpayer. Prerequisite: AC 311.

- AC 321 **COST ACCOUNTING** (3) A study of cost concepts and cost systems, budgeting, variance analysis, and performance reports. Prerequisite: AC 206.
- AC 350 **FINANCIAL ANALYSIS FOR MANAGERS** (3) An overview for non-accounting majors of corporate financial reporting emphasizing the areas of financial statement presentation, disclosure and analysis. Prerequisite: AC 206.
- AC 398 **TUTORIAL IN TAXATION OF PARTNERSHIPS AND CORPORATIONS** permission of department and dean required. Prerequisite: AC 312.
- AC 401 **ADVANCED ACCOUNTING** (3) Specialized areas of financial accounting including business combinations and consolidated financial statements, partnership accounting and fund accounting for governmental and not-for-profit entities. Prerequisite: AC 302.
- AC 411 **ACCOUNTING INFORMATION SYSTEMS (IS 411)** (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 302, 321.
- AC 421 **AUDITING** (3) Includes evaluation of internal control through transaction cycle analysis, balance sheet approach to verification of account balances, design of audit procedures, interpretation of audit results, and professional responsibilities. Prerequisites: AC 411.
- AC 431 **ADVANCED BUSINESS LAW FOR ACCOUNTANTS** (3) Preparation of candidates for the business law section of the CPA exam. Prerequisite: BA 300.

#### Graduate Courses

- AC 501 **FINANCIAL ACCOUNTING** (3) Accounting principles, practices, and systems relating to proprietorships, partnerships, and corporations.
- AC 601 **MANAGERIAL ACCOUNTING** (3) Management's use of accounting data through the preparation, analysis, and interpretation of accounting reports and statements. Prerequisites: AC 501, FI 501, or their equivalents.
- AC 641 **SURVEY OF TAXATION** (3) Introduction to the Federal Revenue System and the taxation of individuals, corporations, partnerships, gifts, estates, and trusts.
- AC 645 **SMALL BUSINESS TAX PROBLEMS** (3) Study of the various small business tax problems. Topics covered include: cost, fringe benefits, compensation, non-taxable exchanges, research and other credits. Prerequisite: AC 641.
- AC 646 **TAXATION OF PARTNERSHIPS AND CORPORATIONS** (3) Topics include formation of corporations and partnerships, S corporations, personal holding companies, etc. Prerequisite: AC 641.
- AC 647 **TAX RESEARCH AND PRACTICE** (3) Tax research concerning regulations governing CPA's, attorneys, statutes of limitation, rules of evidence, etc. Prerequisite: AC 641.
- AC 648 **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 641.
- AC 655 **CONTROLLERSHIP** (3) A study of management planning and control systems and the decision making processes in different organizational structures. Prerequisites: AC 601, FI 601, and MG 601.
- AC 658 **ACCOUNTING INFORMATION SYSTEMS MANAGEMENT AND CONTROL** (3) In depth coverage of developments in electronic data processing of accounting information and techniques of planning, executing and evaluating accounting information systems. Emphasis on internal control and cost/benefit analysis. Prerequisites: IS 501, AC 601, or equivalents.
- AC 659 **TAXATION OF PARTNERSHIPS AND CORPORATIONS - ADVANCED** (3) Topics including liquidations, reorganizations, redemptions, etc. Prerequisite: AC 646.
- AC 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## LAW (LA)

### Upper Division Course

**LA 300 LEGAL ENVIRONMENT (3)** Provides a background in the legal environment of business. Topics include: Business entities, employment discrimination, consumer protection, and products liability.

### Graduate Course

**LA 500 LEGAL ENVIRONMENT (2)** An introduction to legal questions as they relate to the business world. Topics include: contracts, formation of different business entities, business torts, and product and service liability.

## THE DEPARTMENT OF ECONOMICS AND INDUSTRIAL RELATIONS

The Department of Economics and Industrial Relations offers Bachelor of Science in Business Administration degrees in Economics and in Industrial Relations. The Department also offers a Bachelor of Arts in Economics degree through the College of Social Sciences; see page 148.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN ECONOMICS

The Bachelor of Science in Business Administration in Economics provides the student with an understanding of economic issues pertaining to individual firms, industries, and the overall economy. The study of economics emphasizes both analytic reasoning and a thorough knowledge of economic institutions. Economic majors, supported by the knowledge of functional tools acquired in the business core, analyze such topics as inflation, unemployment, international trade, financial markets, and governmental economic activity.

The program has proven useful to people who have moved into positions in all the functional areas of business. It is also an excellent background for graduate study in business, in law, and in economics itself.

Requirements in the concentration include: EC 305 Microeconomic Analysis; EC 306 Macroeconomic Analysis; and twelve (12) hours\* of economics electives, at least six (6) hours of which must be 400-level courses.

\* Three hours of Industrial Relations courses (other than IR 301, IR 320, IR 330, and IR 495) may be substituted for three hours of 300 level economics courses.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN 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 economic, political, psychological, and legal perspectives.

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 hours beyond IR 301 Human Resources, IR 302 Labor Relations, and IR 320 Personnel Administration are recommended for all majors. Of the remaining twelve hours, three hours of economic courses (other than EC 205, 206, 300, or 301) may be substituted for three hours of Industrial Relations electives.

## Economics and Industrial Relations

*Staff:* DR. RANKIN, *chair*; DR. BERTAUX, DR. H. BRYANT, DR. COBB, DR. DONNELLY, DR. GERRING, DR. MARMO, DR. RASHED, DR. WEINBERG, DR. ZIMMERMAN

*Assisted by:* MR. GREULICH, MS. HARMON, MR. PARKER

### Economics (EC)

#### Lower Division Courses

- EC 205 **MICROECONOMIC PRINCIPLES** (3) Principles governing the efficient allocation of the nation's scarce resources. Economic behavior of consumers, producers, and resource owners.
- EC 206 **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, government finance, and international trade. Prerequisite: EC 205.

#### Upper Division Courses

- EC 300 **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. Prerequisites: EC 206.
- EC 301 **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 206.
- EC 305 **MICROECONOMIC ANALYSIS** (3) An in-depth study of consumer behavior, production costs, the firm, market structure, factor markets, and general equilibrium analysis. Prerequisites: EC 205.
- EC 306 **MACROECONOMIC ANALYSIS** (3) Theoretical foundations of understanding GNP, inflation, unemployment, and economic growth. Controversies in modern macro theory. Prerequisites: EC 206.
- EC 315 **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 206.
- EC 330 **COMPARATIVE ECONOMIC SYSTEMS** (3) Study of systemic properties of alternative capitalist, socialist, traditional, and utopian economies. Prerequisites: EC 206.
- EC 340 **UNITED STATES ECONOMIC HISTORY** (3) Economic evolution of the U.S. from colonial times to the present. Prerequisites: EC 206.
- EC 341 **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 206.
- EC 350 **ECONOMICS OF INTERNATIONAL RELATIONS** (3) Course in international economics for non-economic majors. Prerequisites: EC 206.
- EC 390 **TOPICS IN ECONOMICS** (3) Selected problems. Examples include: energy economics and urban economics. May be taken for credit more than once. Prerequisites: EC 206.

- EC 410 **ECONOMETRICS** (3) The construction and testing of economic models. Emphasis given to linear regression techniques, special problems in estimating economic relationships, and interpretation of results. Prerequisites: EC 305 or 306; MT 146 or 156 or DS 200.
- EC 420 **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 305, 306; MT 150 or 170.
- EC 430 **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 305.
- EC 440 **PUBLIC FINANCE** (3) Role of government in the economy. An analysis of the principles of government expenditure and taxation. Prerequisite: EC 305.
- EC 450 **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 305, 306.
- EC 460 **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 305, 306.
- EC 470 **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 305, MT 150, and DS 200 or MT 146 or 156.
- EC 480 **ADVANCED MACROECONOMICS** (3) Detailed study of varying topics in macroeconomic analysis. Prerequisite: EC 306.
- EC 490 **SEMINAR: ECONOMICS** (3) Major economic topics are examined in depth. Student research and classroom discussion. Prerequisites: EC 305, 306.
- EC 497 **TUTORIAL COURSE** (2-3) Special reading and study for advanced students. Approval of department chair and dean required.

#### Graduate Courses

- EC 501 **ECONOMIC ANALYSIS** (4) An accelerated introduction to economics. Emphasis placed on the principles of microeconomics with a brief exposition of macroeconomic theory.
- EC 601 **ECONOMIC ENVIRONMENT** (3) Advanced course in the macroeconomic analysis of movement in real income, aggregate price, interest rates, and factor prices using classical, Keynesian, and post-Keynesian models. Emphasis on the use of monetary and fiscal policy in an international economic environment. Prerequisite: EC 501 or equivalent.
- EC 627 **INTERNATIONAL ECONOMICS AND BUSINESS** (3) Growth and direction of trade, internationalization of businesses, role of governments. Mechanics of financing foreign trade and investment. Prerequisite: EC 601.
- EC 630 **MANAGERIAL ECONOMICS** (3) Economic analysis as applied to practical business operation. Topics include demand analysis, forecasting, cost analysis, and pricing techniques. Prerequisite: EC 601.
- EC 632 **BUSINESS FORECASTING** (3) Development and application of statistical techniques used in short-term forecasting. Prerequisites: DS 501 and EC 601.
- EC 635 **BUSINESS AND PUBLIC POLICY** (3) A course on various aspects of public policy in a market-based environment including public expenditure theory, antitrust and environmental regulation, alternative taxation analysis, and the applications of economic models to legal solutions involving property rights contracts. Prerequisite: EC 601.
- EC 690 **SEMINAR: CURRENT ECONOMIC PROBLEMS** (3) Topics selected from current significant theory and policy issues. Prerequisite: EC 601.
- EC 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

**Industrial Relations (IR)****Upper Division Courses**

- IR 301 **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 205.
- IR 302 **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 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 305.
- IR 330 **INDUSTRIAL PSYCHOLOGY (3)** (MG 330, PS 251) Application of psychological principles and procedures to a variety of organizations. Research, measurement and human behavior are emphasized.
- IR 335 **DISCRIMINATION IN LABOR MARKETS (3)** Examination of the problem of discrimination in U.S. labor markets, with primary attention to race and sex discrimination.
- IR 340 **U.S. EMPLOYMENT AND TRAINING POLICY (3)** Analysis of programs and policies aimed at fully employing the U.S. labor force, especially minorities, women, dislocated workers, and the economically disadvantaged; including job training, equal employment opportunity and government employment programs.
- IR 345 **COMPENSATION THEORY AND PRACTICE (3)** An examination of the logic and practices involved in programs for compensating employees.
- IR 490 **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 497 **TUTORIAL: INDUSTRIAL RELATIONS (2-3)** Contents to be determined according to the needs of the student. Approval of department chair and dean required.

**Graduate Courses**

- IR 602 **MANAGEMENT OF THE PERSONNEL FUNCTION (3)** Selection, development, HR planning, compensation, labor relations and employee relations will be covered.
- IR 611 **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; contributes to fact-finding and problem solving skills.
- IR 612 **SEMINAR: COLLECTIVE BARGAINING (3)** An examination of contract negotiations as a tool for handling problems and issues in labor-management relations. Casework involved.
- IR 613 **PERSONNEL AND THE LAW (3)** Analysis of current law dealing with labor-management relations, working conditions and discrimination.



- IR 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: MG 601.
- IR 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.
- IR 618 **U.S. EMPLOYMENT AND TRAINING POLICY ISSUES** (3) Case studies in employment and training policies directed at full employment of the U.S. labor force. Emphasis on job training, equal employment opportunity, and government employment programs aimed at minorities, women, dislocated workers and the economically disadvantaged.
- IR 619 **COMPENSATION ISSUES** (3) An examination of contemporary problems and issues involved in programs for compensating employees.
- IR 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## THE DEPARTMENT OF FINANCE

The Department of Finance offers the Bachelor of Science in Business Administration in Finance.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN FINANCE

The Bachelor of Science in Business Administration program in finance develops an appreciation 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.

The major requires eighteen hours beyond the college core course, FI 300. The requirements are as follows:

FI 365 Investments	FI 480 Cases and Problems in Finance
FI 370 Financial Institutions	AC 350 Financial Analysis for Managers OR
FI 401 Financial Management	AC 302 Intermediate Accounting II
	One finance elective

### Finance (FI)

*Staff:* DR. S. JOHNSON *chair*; DR. COFFEY, DR. GERDSEN, DR. GLASGO,  
DR. JANKOWSKE, MR. PAWLUKIEWICZ, MR. ROTHWELL

*Assisted by:* MS. EVERT

#### Upper Division Courses

- FI 300 **BUSINESS FINANCE** (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisites: AC 206, DS 200.
- FI 365 **INVESTMENTS** (3) Evaluation, selection and management of securities and portfolios including a study of theory using analytical approaches. Prerequisite: FI 300.

- FI 370 **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 300.
- FI 401 **FINANCIAL MANAGEMENT** (3) Financial theory and its applications to corporation finance. Prerequisite: FI 300.
- FI 433 **ENTREPRENEURIAL FINANCE** (3) Explores cash flow, valuation and financing issues of special concern to start-up businesses and closely held firms. Prerequisite: FI 300.
- FI 450 **TAX ASPECTS OF FINANCIAL DECISIONS** (3) Overview of the important tax consequences of financial decisions. Emphasis on ability to recognize symptoms of possible tax problems affecting business. Prerequisite: FI 300.
- FI 460 **SECURITY ANALYSIS** (3) Review of fundamental analysis of intrinsic security analysis and technical timing tools. Prerequisite: FI 365.
- FI 465 **OPTIONS AND FUTURES MARKETS** (3) Options and futures strategies, the valuation of options and futures, and the theory of hedging. Prerequisite: FI 365.
- FI 475 **REAL ESTATE FINANCE** (3) Properties and principles of institutions, instruments, and methods used to finance commercial, industrial and residential real estate. Prerequisite: FI 300.
- FI 480 **CASES AND PROBLEMS IN FINANCE** (3) Case studies involving financial analysis, capital budgeting, capital structure, and related areas. Prerequisite: FI 401.
- FI 490 **INTERNATIONAL FINANCE** (3) International monetary system, international money and capital markets, and financing of international business. Prerequisite: FI 300.
- FI 497 **READINGS IN FINANCE** (3) Advanced reading and research in finance open only to seniors. Projects must have the approval of the department chair and dean.

#### Graduate Courses

- FI 501 **CORPORATE FINANCE** (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: AC 501 or its equivalent.
- FI 601 **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: FI 501, DS 501, or equivalents.
- FI 620 **TAXES AND FINANCIAL DECISIONS** (3) Overview of the important tax consequences of financial decisions, with emphasis on the financial executive's ability to recognize symptoms of possible tax problems affecting business. Prerequisites: AC 601, FI 601.
- FI 621 **OPTIONS AND FUTURES MARKETS** (3) Options and futures strategies: the valuation of options and futures, the theory of hedging. Prerequisite: FI 601.
- FI 622 **ENTREPRENEURIAL FINANCE** (3) Explores cash flow, valuation and financing issues of special concern to start-up businesses. Prerequisites: AC 601, FI 601.
- FI 623 **CONTEMPORARY FINANCIAL INSTITUTIONS** (3) Trends affecting financial institutions and the financial system: deregulation, competition, overlap of functions between depository and non-depository financial institutions. Prerequisites: EC 501, FI 501, or equivalents.
- FI 632 **INTERNATIONAL FINANCE AND INVESTMENTS** (3) Background, techniques, and concepts necessary to invest in the global security market: overview of international economic environment, foreign exchange market, international finance, investment portfolios, equity, bond market and foreign currency futures and options, gold and gold-linked investments. Prerequisite: FI 601.
- FI 640 **PURCHASE, SALE, AND VALUATION OF CLOSELY HELD FIRM** (3) Techniques for valuing closely held firms and methods of structuring a purchase or sale. Prerequisite: FI 601.

- FI 651 **MONEY AND CAPITAL MARKETS** (3) Financial institutions and markets, the theory of interest rate determination, monetary policy, and fiscal policy. Prerequisite: FI 501, or equivalent.
- FI 652 **INVESTMENT MANAGEMENT** (3) Evaluation, selection, and management of securities and portfolios. Includes a study of theory using analytical approaches. Prerequisite: FI 501, or equivalent.
- FI 653 **PROBLEMS AND CASES IN FINANCE** (3) Case studies of problems involving financial analysis, capital budgeting, capital structure, and related areas. Prerequisite: FI 601.
- FI 660 **SECURITY ANALYSIS** (3) Review of fundamental analysis of intrinsic security analysis and technical timing tools. Prerequisite: AC 601.
- FI 662 **INVESTMENT MANAGEMENT II** (3) Portfolio theory, technical and fundamental analysis, efficient markets, bond management, international investments, options, futures. Prerequisites: FI 601, FI 652.
- FI 675 **REAL ESTATE FINANCE** (3) Analyze investments in real estate with emphasis on financial considerations while also giving explicit attention to the social, political, marketing, legal and physical factors affecting investment decisions and performance. Prerequisite: FI 601.
- FI 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## THE DEPARTMENT OF INFORMATION AND DECISION SCIENCES

The Department of Information and Decision Sciences offers the degree Bachelor of Science in Business Administration in Information Systems, and courses in Decision Sciences.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN INFORMATION SYSTEMS

The objectives of the Information System Program are to facilitate good management 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, communication skills, and analytic ability to prepare for the dynamic field of computer-information systems.

This degree is designed for individuals who aspire to a career as programmer/analyst, systems analyst, or information systems manager. The IS major is conducive to double majoring. Consult the college office for more details.

The number of required hours for an information systems major is 21. Required courses are: IS 300, 358, 364, 450, 452 and 6 hours of electives. No IS major course may be repeated more than one time.

## Information and Decision Sciences

*Staff:* DR. RUWE, *acting chair*; DR. BLACKWELL, MR. BRAUN, DR. CRABLE, DR. CUNNINGHAM, DR. B. JOHNSON, DR. KLOPPENBORG, DR. THIERAUF, DR. WEBB  
*Assisted by:* MR. ALBRIGHT, MR. BECK, DR. BERES, MR. HARRIS, DR. LUZADER, MR. MILLER, MR. PETERSON

### Information Systems (DS)

#### Lower Division Course

- IS 100 **INTRODUCTION TO INFORMATION SYSTEMS** (3) Concepts of information systems and data processing. The student will gain actual experience using computers to develop applications. The course will include use of word processing, spreadsheet and data base software. Prerequisite: MT 149.

#### Service Course

Not to be taken for IS major credit

- IS 320 **MICROCOMPUTER APPLICATIONS** (3) Word processing, spreadsheets, database, public domain software. Student projects. Current trends in application of micros.

#### Upper Division Courses

- IS 300 **DATA ORGANIZATION** (3) Data structures for information systems, arrays, linked lists, and algorithms for searching, sorting and maintenance of these structures. Prerequisite: IS 100.
- 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 100.
- IS 358 **DATA MODELING AND DATA BASE DESIGN** The study of the theory of modeling enterprise activities in terms of their data. Data bases are implemented using relational, network, and hierarchical methodologies. Prerequisite: IS 300.
- IS 359 **SMALL COMPUTERS FOR BUSINESS** (3) Programming small computers for business with emphasis on C programming, systems architecture, and operating systems. Prerequisite: IS 300.
- IS 360 **ARCHITECTURE AND ASSEMBLER** (3) See CS 255. Prerequisite: IS 300.
- IS 361 **ADVANCED ASSEMBLER** (3) See CS 256. Prerequisite: IS 360.
- IS 364 **PROGRAMMING BUSINESS SYSTEMS IN COBOL** (3) Structured COBOL computer programming language with business applications. The emphasis is on writing professional programs. Prerequisite: IS 300.
- IS 366 **PASCAL PROGRAMMING** (3) See CS 171.
- IS 372 **AI AND EXPERT SYSTEMS** (3) Introduction to artificial intelligence with emphasis on problem definition, knowledge extraction and application development of knowledge-based expert systems. Prerequisite: IS 300 or permission of instructor.
- IS 411 **ACCOUNTING INFORMATION SYSTEMS** (3). See AC 411.
- IS 450 **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. Co-requisite: IS 358. Prerequisites: IS 300 and all Business Core except BA 300 and BA 499.
- IS 452 **SYSTEMS DEVELOPMENT PROJECT** (3) (CS 352) The project team approach to the design and implementation of information systems. Documentation, coding, walk-through, and programming productivity techniques. A major programming project requiring implementation. Prerequisites: IS 450.

- IS 457 **DATA COMMUNICATIONS AND NETWORKING** (3) Data communication fundamentals for networking and distributed processing. Communication protocols, SNA, DECNET, and local area networks. Prerequisite: IS 300.
- IS 495 **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 497 **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 and dean.
- IS 499 **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.

#### Graduate Courses

- IS 501 **MANAGERIAL COMPUTER APPLICATIONS** (3) Introduction to computer hardware and software using word processing, spreadsheet and data base management software with emphasis on data modeling, systems development, and end user computing in a managerial environment.
- IS 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 systems, and decision support systems. A student project is required. Prerequisite: IS 501 or equivalent.
- IS 608 **DATA BASE DESIGN** (3) A hands-on practitioner approach to the design and implementation of data bases as models of enterprise activities which are implemented as self describing integrated files. Emphasis on "soft" aspects of data base applications, however the impact of operational physical (hard) aspects of data base design are also covered. Prerequisite: IS 501 and proficiency in 3rd or 4th generation language.
- IS 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: IS 602.
- IS 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: IS 602.
- IS 649 **SMALL COMPUTERS FOR BUSINESS** (3) Microprocessor architecture, peripherals, operating systems, application software with emphasis on operating systems and the C programming language. Prerequisite: IS 602.
- IS 650 **EXPERT SYSTEMS** (3) An introduction to artificial intelligence with emphasis on problem definition, knowledge extraction, and application development of knowledge based expert systems in a business environment. Prerequisite: IS 501.
- IS 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: IS 602.
- IS 652 **COMPUTER GRAPHICS FOR MANAGEMENT** (3) New trends and concepts in computer graphics for management information systems. Hardware, software, student project. Prerequisites: IS 602, programming and analysis experience.
- IS 690 **TOPICS IN MANAGEMENT INFORMATION SYSTEMS** (3) New trends and concepts in MIS not covered in other courses. Prerequisite: IS 602.
- IS 695 **INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

**Decision Sciences (DS)**

- DS 200 BUSINESS STATISTICS (3)** An introduction emphasizing business applications. Topics include descriptive statistics, probability, sampling distributions, confidence intervals, classical hypothesis testing, simple linear regression and correlation analysis, and an introduction to multiple regression. Computerized data analysis is introduced. Prerequisites: MT 150 (IS 100 suggested).
- DS 250 APPLIED QUANTITATIVE METHODS (3)** An introduction to management science models and techniques. Topics include linear programming, transportation and assignment problems, project scheduling (PERT/CPM), inventory models, simulation, waiting line models, and decision analysis. Model formulation is emphasized and the use of management science software is introduced. Prerequisites: DS 200 (IS 100 is suggested).

**Graduate Courses**

- DS 501 MANAGERIAL STATISTICS (3)** Descriptive statistics, discussion of frequency distributions, exploratory data analysis and measures of central tendency, dispersion and skewness. Classical statistical inference, probability and probability distributions, sampling distributions, estimation, test of hypotheses, simple linear regression and correlation analysis, and an introduction to multiple regression analysis and computerized data analysis. Prerequisite: College Algebra.
- DS 503 INTRODUCTION TO MANAGEMENT SCIENCE (2)** An introduction to management science models and techniques. Topics include linear programming, transportation and assignment problems, project scheduling (PERT/CPM), inventory models, simulation, waiting line models, and decision analysis. The use of management science software is introduced. Prerequisites: DS 501 and IS 501 or equivalents.
- DS 601 CASES AND TECHNIQUES IN MANAGEMENT SCIENCE (3)** The analysis of business decisions using management science models and techniques. Emphasis is on forecasting, decision analysis, simulation, and linear programming. Assignments include analysis and presentation of cases and a term project consisting of an original application. Prerequisites: DS 503 or equivalent.
- DS 626 APPLIED STATISTICAL ANALYSIS (3)** Emphasis on advanced statistical techniques including multiple regression, analysis of variance, forecasting and time series, parameters and quality control. Extensive use of a statistical software package to analyze data. Prerequisite: DS 501 or equivalent.
- DS 629 SEMINAR IN DECISION SCIENCES (3)** A seminar that focuses on current quantitative methods; topics of a theoretical and practical nature. Prerequisite: DS 601 or equivalent.
- DS 640 QUALITY MANAGEMENT I (3)** Intended for general managers interested in improving quality in their organizations. The quality management philosophy of W. Edwards Deming will be emphasized, along with the basics of statistical quality control. A term paper with an oral presentation will be required. Composition of course: 1/2 technical, 1/2 managerial. Prerequisites: DS 501, MG 503 and 601.
- DS 641 QUALITY MANAGEMENT SEMINAR (3)** Advanced topics in Quality Management such as: quality function deployment, managing the cost of quality, conducting quality audits, quality management in service organizations, experimental design, and Taguchi methods. Each student will identify an area of special interest and complete a semester project. Prerequisite: DS 640.

## THE DEPARTMENT OF MANAGEMENT

The Department of Management offers the Bachelor of Science in Business Administration in three areas: Management, General Business, and Entrepreneurial Studies.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN MANAGEMENT

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

1. providing education in the principles and practices of 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 leadership capabilities.

This degree is designed for individuals who have career aspirations as management trainees, personnel trainees, in business education\*, or in pre-law.

The number of required hours for a management major is 21. The required courses are: MG 305, 306, 308, 309, 310, and 6 hours of electives.

\* Students interested in teaching certification in business should consult with the chair of the Education Department for certification requirements.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN GENERAL BUSINESS

The Bachelor of Science in Business Administration in General Business provides a broad, flexible program in business education that prepares students for a variety of careers, particularly students interested in Pre-Law or Pre-MBA preparation. 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 is 21 over and above the College of Business core curriculum requirements. Of these, 6 are elective hours and may be chosen from any CBA departmental offerings. The other 15 hours must be selected from the following list, and one course is to be selected from each of the 5 areas.

Course No.	Subject	Sem. Hrs.
1.	AC 301 Intermediate Accounting .....	3
	AC 311 Taxation of Individuals	
	AC 321 Cost Accounting	
2.	FI 365 Investments .....	3
	FI 370 Financial Institutions	
	FI 401 Financial Management	
3.	IS 320 Microcomputer Applications .....	3
4.	MK 320 International Marketing .....	3
	MK 345 Marketing Communications	
	MK 355 New Product Development	
	MK 370 Consumer Behavior	
5.	MG 308 Business Communications .....	3
	MG 309 Organizational Theory & Design	
	MG 311 Entrepreneurship	
6.	Electives Upper Division (300-level or higher)	
	Business College courses .....	6

## THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN ENTREPRENEURIAL STUDIES

The strength of our free enterprise economy depends heavily on entrepreneurs; individuals who identify new product or service opportunities, who develop workable plans for capitalizing on those opportunities, and who assume personal risk and take the initiative in creating and then managing the new or expanded enterprises which those plans make possible. Xavier's undergraduate major in Entrepreneurial Studies is designed to help prepare students to:

- provide progressive leadership for existing family businesses,
- start their own businesses, and/or
- pursue corporate careers in creating and managing innovation.

Since successful entrepreneurs need to be generalists rather than specialists in only one business function, the Entrepreneurial Studies major is interdisciplinary in nature, requiring advanced coursework in Management, Finance and Marketing, as well as a real world senior year capstone project, for a total of 21 hours of upper level work as follows (all courses listed are 3 semester hours):

### REQUIRED COURSES:

ES 311	Entrepreneurship
MK 302	Marketing Research
FI 433	Entrepreneurial Finance
ES 495	Individual Project in Entrepreneurial Studies

### ELECTIVE COURSES (Choose 3, at least 1 in Marketing):

MK 325	Marketing Services
MK 330	Retailing
MK 355	New Product Development
MK 361	Promotion and Selling
IS 320	Microcomputer Applications
IS 359	Small Computers for Business
MG 308	Business Communications
FI 365	Investments
FI 440	Purchase, Sale, and Valuation of Closely Held Firms
FI 475	Real Estate Finance

All students declaring a major in Entrepreneurial Studies must consult the Director of the Xavier Entrepreneurial Center at the time they declare.

## Management (MG)

*Staff:* DR. KLEKAMP, *chair*; DR. J. ANDERSON, DR. BYCIO, DR. CAMEALY, DR. CLARK, DR. EUSTIS, DR. P. JONES, MR. RAO

*Assisted by:* MR. BALDWIN, MR. BAGLEY, DR. COSGROVE, MS. COUCH, MR. DOMIZIO, MR. MARTINI, DR. QUATMAN, DR. RARICK, MR. SMITH, MR. STONE, MR. TOM, MR. WILMER, DR. WEISSBUCH.

### Upper Division Courses

- MG 302 **LABOR RELATIONS** (3) (IR 302) Issues and problems involved in union-management relations. Evaluation of collective bargaining as a method for resolving labor disputes in our economic system.
- MG 305 **ORGANIZATIONAL BEHAVIOR** (3) Current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized.



- MG 306 PRODUCTION MANAGEMENT (3)** Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisites: MG 305, DS 200.
- MG 308 BUSINESS COMMUNICATIONS (3)** Essentials of communicating effectively in business with accent on written and oral communication skills.
- MG 309 ORGANIZATIONAL THEORY AND DESIGN (3)** Theory and design of organizational systems, organization performance, culture and development. Prerequisite: MG 305.
- MG 310 WORKGROUP PROCESS (3)** Analysis of forces controlling group formulation and development in business and organizational work situations. Techniques for analyzing and productively managing informal groups. Prerequisite: MG 305.
- MG 311 ENTREPRENEURSHIP (3) (ES 311)** Identifying, evaluating and developing systems for the management of new business opportunities. Prerequisites: MG 305, MK 300, FI 300, AC 205 and AC 206.
- 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 1990's and beyond. Prerequisite: MG 305.
- MG 316 COMPLEX ORGANIZATIONS (3)** See SO 316.
- MG 320 PERSONNEL ADMINISTRATION (3) (IR 320)** Selection, training, and development of organization personnel, with emphasis on present personnel principles and practices. Prerequisite: MG 305.
- MG 321 INDUSTRIAL PSYCHOLOGY (3) (PS 251, IR 330)** Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon the human element in American industry. Prerequisite: MG 305.
- MG 495 INTERNSHIP IN ENTREPRENEURIAL STUDIES (3) (ES 495)** Individual project contributing significantly to the growth of a new or existing business, or to the development of the field of entrepreneurial studies. Approval of department chair is required.
- MG 497 TUTORIAL COURSE (3)** Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.
- MG 499 BUSINESS POLICY (3)** Provides an opportunity to integrate business core and major related knowledge through the use of selected cases. Prerequisites: ALL other business core courses.

#### Graduate Courses

- MG 502 BUSINESS COMMUNICATIONS (2)** Fundamentals of effective business communication; accent on written skills.
- MG 503 PRODUCTION MANAGEMENT (2)** Techniques for planning, scheduling, operating, and controlling an operations environment. Problem based course; includes forecasting, break-even analysis, inventory management, project management and related topics. Prerequisites: DS 501.
- MG 601 ORGANIZATIONAL BEHAVIOR (3)** Applications of models and theories in the areas of organizational behavior, interpersonal communication, and organizational theory and design. Prerequisites: MG 502 and MG 503.
- MG 602 EXECUTIVE PRACTICES (3)** Comparative issues in Japanese, European and U.S. Executive Management. Prerequisite: MG 601.
- MG 604 MANAGEMENT PLANNING (3)** The planning function of management; intermediate and long-range planning. Prerequisite: MG 601.
- MG 611 MANAGERIAL COMMUNICATIONS (3)** Advanced business communications course, oral and written. Concepts include: alignment with organizational objectives, perspective and positioning, logic and persuasion, graphic design, writing for diversity. Prerequisite: MG 601.
- MG 616 MANAGEMENT OF STRESS (3)** Causes of stress are studied in a variety of environments and solutions to manage stress are developed. Prerequisite: MG 601.

- MG 625 MULTINATIONAL MANAGEMENT (3)** Planning international trade, sources of information, structuring multinational firms, personnel development, especially communication/motivation. Prerequisite: MG 601.
- MG 644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS (3)** Role of motivation in performance within organizations, various concepts of motivation, leadership and group interaction are studied, with emphasis on research findings. Prerequisite: MG 601.
- MG 645 HUMANISTIC MANAGEMENT (3)** Transactional Analysis, Gestalt Therapy, and Neurolinguistic Programming form the basis of this communications competency based course. Requires group participation, reading summaries, and journal-keeping. Prerequisite: MG 601 or permission of instructor.
- MG 695 INDIVIDUAL READINGS AND RESEARCH (2-3)** Open to especially qualified students with the consent of the chairman of the appropriate department and dean.
- MG 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: ALL core courses and final semester in program.

## Entrepreneurial Studies (ES)

### Upper Division Courses

- ES 311 ENTREPRENEURSHIP (3)** (MG 311) Identifying, evaluating and developing systems for the management of new business opportunities. Prerequisites: MG 305, MK 300, FI 300, AC 205 and AC 206.
- ES 495 INTERNSHIP IN ENTREPRENEURIAL STUDIES (3)** (MG 495) Individual project contributing significantly to the growth of a new or existing business, or to the development of the field of entrepreneurial studies. Approval of department chair is required.

### Graduate Courses

- ES 696 SMALL BUSINESS CONSULTING (3)** Student teams serve as consultants to small business enterprises. Site visitation, analysis of problems, and recommended solutions. Prerequisites: all core courses.
- ES 698 ENTREPRENEURSHIP (3)** New ventures. Searching, screening, evaluating, negotiating, and financing to initiate or purchase a company. Prerequisites: all core courses.

**NOTE:** The prefix ES (Entrepreneurial Studies) designates courses offered through the Management Department which are of particular relevance for students interested in Entrepreneurship. Other relevant courses may be found in the departmental listings for Marketing, Finance, or Information Systems.

## THE DEPARTMENT OF MARKETING

The Department of Marketing offers the degree Bachelor of Science in Business Administration in Marketing.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION IN 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.

The required courses for this degree are: MK 300, MK 302, MK 404, MK 499 and nine semester hours of electives in upper division marketing courses.

## Marketing (MK)

*Staff:* DR. HAYES, *chair*; DR. AHUJA, DR. KUMPF, DR. SCHERTZER,  
DR. SCHÜSTER, DR. TREBBI, DR. VAN KIRK, DR. WALKER  
*Assisted by:* MR. HATTENBACH, MR. LAW

### Lower Division Course

**MK 300 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 302 MARKETING RESEARCH** (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: DS 200, MK 300.

**MK 310 INDUSTRIAL MARKETING** (3) Problems of marketing industrial products. Management of the pricing, selling, and servicing of industrial goods distributions. Customer services. Prerequisite: MK 300.

**MK 320 INTERNATIONAL MARKETING** (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare. Prerequisite: MK 300.

**MK 325 MARKETING SERVICES** (3) The marketing of services will be explored with special emphasis on how they differ from packaged and industrial goods. Prerequisite: MK 300.

**MK 328 DIRECT MARKETING** (3) Direct marketing as a tool, its strategies, techniques and measurement systems are studied. Prerequisite: MK 300.

**MK 330 RETAILING MANAGEMENT** (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study. Prerequisite: MK 300.

**MK 331 ADVANCED CONCEPTS IN RETAILING** (3) Study of retailing beyond the introductory course. Special emphasis on buying and merchandising functions. Prerequisite: MK 330 or permission of instructor.

- MK 345 MARKETING COMMUNICATIONS (3)** Fundamental behavioral and communication concepts used in developing effective communications programs. Prerequisite: MK 300.
- MK 350 PROMOTION - ADVERTISING (3)** Creative and institutional aspects of advertising and their relationship to market and product attributes. Effects of legal and social environment. Prerequisite: MK 300.
- MK 351 SALES PROMOTIONS (3)** The use of sales promotions as promotional tools are examined. The development, implementation and budgeting of sales promotions are studied. Prerequisite: MK 300.
- MK 355 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. Prerequisite: MK 300.
- MK 361 PROMOTION - SELLING (3)** Dynamics of selling and techniques of persuasive leadership. Sales management. Selection, training, compensation, and analysis of sales force activities. Prerequisite: MK 300.
- MK 370 CONSUMER BEHAVIOR (3)** Marketing strategy implications of consumer behavior. Anthropology, economics, psychology, sociology, and the consumer. Prerequisite: MK 302.
- MK 392 CONTEMPORARY MARKETING ISSUES (3)** Current developments in consumerism and consumer protection. Ecology, social responsibility, and ethical issues. Governmental roles. Prerequisite: MK 300.
- MK 404 MARKETING MANAGEMENT (3)** Marketing planning. The coordination of all aspects of marketing. Efficient utilization of resources. Prerequisites: six hours of upper division marketing courses.
- MK 496 MARKETING PRACTICUM (3)** Designed for undergraduate students participating in non-paid internships, the goals and objectives of these internships and course approval are the responsibility of the chair.
- MK 497 TUTORIAL COURSE (2-3)** Research, meetings, and attendance at scheduled lectures as determined by the advisor. Prerequisite: permission of the chair and dean.
- MK 499 MARKETING PLANNING AND ANALYSIS (3)** Application of marketing principles to case analysis. Prerequisites: MK 404 and six hours of upper division marketing courses.

#### Graduate Courses

- MK 501 MARKETING CONCEPTS (3)** Principles of marketing; concepts, functions, institutions, and policies.
- MK 601 MARKETING STRATEGY (3)** The strategic planning process as it applies to marketing management, current literature and techniques. Prerequisites: MK 501 and FI 501, or equivalents.
- MK 626 MULTINATIONAL MARKETING (3)** Product decisions, pricing decisions, and channel decisions in the world market environment. Stresses cultural differences. Prerequisite: MK 601 or permission of instructor.
- MK 628 DIRECT MARKETING (3)** The use of direct marketing as a powerful business to business and consumer marketing tool is explored. Prerequisite: MK 601 or permission of instructor.
- MK 630 MARKETING SERVICES (3)** The principles, practice and scope of service marketing are explored. Prerequisite: MK 601 or permission of instructor.
- MK 660 SALES AND SALES MANAGEMENT (3)** Explore dimensions of selling as a marketing function and the application of theories of management to the selling function within organizations. Prerequisite: MK 601 or permission of instructor.
- MK 661 MARKETING MANAGEMENT (3)** Application of marketing concepts and theory to actual situations via case method. Individual reports and presentations. Prerequisite: MK 601 or permission of instructor.

- MK 662 MARKETING RESEARCH** (3) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. Prerequisite: MK 601 or permission of instructor.
- MK 663 INDUSTRIAL MARKETING** (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. Prerequisite: MK 601 or permission of instructor.
- MK 664 CONSUMER BEHAVIOR THEORY** (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. Prerequisite: MK 601 or permission of instructor.
- MK 665 ADVERTISING** (3) The role of advertising in the marketing process. The advertising campaign, its creative and media components. The decision processes. Case method. Prerequisite: MK 601 or permission of instructor.
- MK 666 MARKETING AND THE LAW** (3) Statutory and case law as each affects marketing decision-making, sales contracts, warranties, transfer of title, remedies under UCC. Prerequisite: MK 601 or permission of instructor.
- MK 668 NEW PRODUCT PLANNING AND DEVELOPMENT** (3) The entire process of new product development from idea generation to commercialization is developed. Prerequisite: MK 601 or permission of instructor.
- MK 669 MARKETING MODELS** (3) Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: MK 601 or permission of instructor.
- MK 670 SEMINAR: CONTEMPORARY MARKETING ISSUES** (3) Current developments in marketing as related to social issues: consumerism, social responsibility, ethical issues, and governmental roles. Prerequisite: MK 601 or permission of instructor.
- MK 695 INDIVIDUAL READINGS AND RESEARCH** (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## Center for Management and Professional Development

*Staff:* DR. JONES, *Director*; MS. SCHNEIDER, *Director of Marketing*, MS. BARLOW and MS. BENSMAN, *Program Managers*

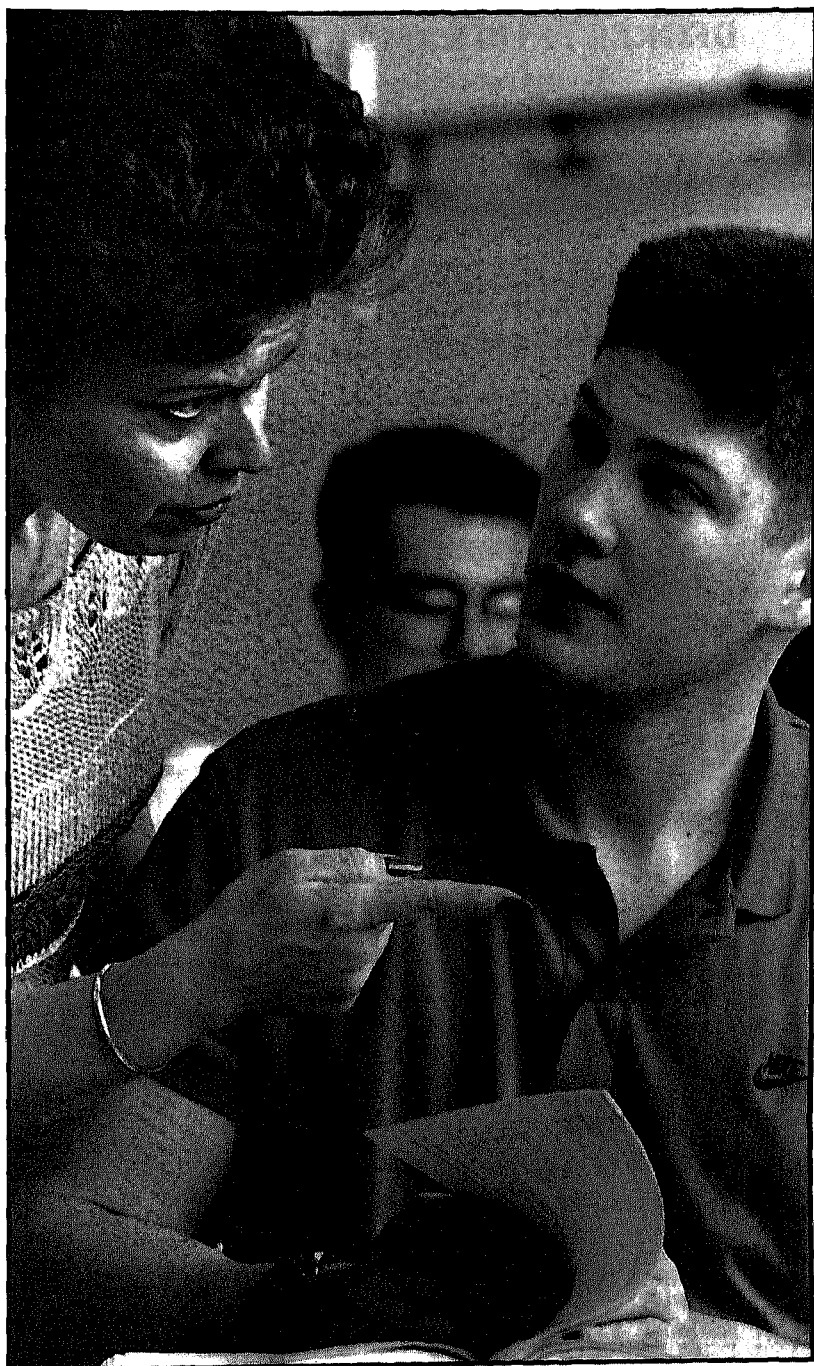
*Assisted by:* Members of the Xavier University faculty and resource personnel from local and national sources.

Numerous seminars and workshops as well as consultation and conference planning are offered by the University through the Center for Management and Professional Development.

## Entrepreneurial Center

*Staff:* DR. EUSTIS, *Director*

The Xavier Entrepreneurial Center offers educational programming for business start-ups and direct counseling assistance to students, alumni, and community entrepreneurs.



# DEGREE PROGRAMS AND COURSES

## COLLEGE OF SOCIAL SCIENCES

The College of Social Sciences has degree programs in seven departments, Criminal Justice, Education, Hospital and Health Administration, Nursing, Political Science and Sociology, Psychology, and Social Work. In addition, the Department of Military Science and the Program in Pre-Mortuary Science are located in the College, and a Bachelor of Arts in Economics is offered through this College. Brochures showing required courses and suggested sequence of courses for each major are available in departmental offices.

## THE DEPARTMENT OF CRIMINAL JUSTICE

The Department of Criminal Justice offers the Associate of Science, the Bachelor of Science and the Master of Science in Criminal Justice. For information on the Associate degree, contact the Center for Adult and Part-time Students or the department.

### THE BACHELOR OF SCIENCE IN 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 CJ 101, CJ 102, CJ 210, CJ 221, CJ 230, and CJ 260. In addition, CJ 291 Practicum in Criminal Justice consisting of supervised placement in criminal justice agencies, and CJ 281 Methods of Criminal Justice Research providing exposure to applied research in the subject area, are required of all students. An additional 6 hours must be chosen from Criminal Justice elective courses.

The department advisor consults individually with each student in course selections.

### THE MASTER OF SCIENCE IN 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 a free society.

The degree of Master of Science in Criminal Justice will be awarded only to candidates who have successfully completed 33 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 requirements (CJ 592 and CJ 584 respectively).

A minimum of 33 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)
- CJ 520 SOCIOLOGY OF CRIME AND DELINQUENCY (3)
- CJ 542 CRIMINAL JUSTICE ADMINISTRATION (3)
- CJ 583 RESEARCH IN CRIMINAL JUSTICE: PLANNING AND INFORMATION SYSTEMS (3)
- CJ 584 RESEARCH ESSAY: SEMINAR (3)
- CJ 592 INTERNSHIP (3)

**OTHER REQUIRED COURSES:**

- CJ 511 LAW AND JUSTICE IN AMERICA (3)  
 CJ 521 JUVENILE JUSTICE IN A CHANGING SOCIETY (3).

**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 33.

**Criminal Justice (CJ)**

*Staff:* MR. HAHN, *chair*; DR. RICHARDSON, *Director of Undergraduate Program*,  
 DR. ENDRES

*Assisted by:* DR. BYWATER, DR. GORDON

**Lower Division Courses**

- CJ 101 INTRODUCTION TO CRIMINAL JUSTICE (3) (SW 101) An overview of the legal basis of the criminal justice system and of its structures and functions  
 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) (PO 110) Legal, behavioral, historic, and contemporary aspects of the American Political System.  
 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 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) (ED 488, PS 488, SO 488) An overview of humanistic approaches to the helping professions. Included are effective communications, emotional involvement, and development of professional interpersonal relationships.  
 CJ 260 CURRENT ISSUES IN CRIMINAL JUSTICE (3) (SW 260) Prerequisite CJ 101.  
 CJ 264 OVERVIEW OF CONTEMPORARY CORRECTIONS (3).  
 CJ 265 CLASS AND CLASS CONFLICT (3) (SO 265) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.  
 CJ 266 CRIME AND PERSONALITY (3) (CJ 566, ED 266, PS 266) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches.  
 CJ 276 PSYCHOLOGY OF DELINQUENCY (2) (CJ 576, PS 276, ED 276) Types and causes of juvenile delinquency together with brief case histories.  
 CJ 281 METHODS OF RESEARCH IN CRIMINAL JUSTICE (3).  
 CJ 290 CRIMINOLOGY AND PENOLOGY (3) (SO 290) Causative theories of crime. Crimes and criminals in the context of behavioral systems. Policies and programs of legal treatment.  
 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 508 **COMMUNITY-BASED CORRECTIONS** (3). Theory and practice in non-institutional model.  
 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.  
 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 juvenile social control in U.S., legal trends in juvenile court and institutions, evaluation of contemporary practice in the juvenile justice system.  
 CJ 533 **INTERVIEWING AND COUNSELING IN CORRECTIONS** (3).  
 CJ 537 **ADVANCED CORRECTIONAL COUNSELING** (3).  
 CJ 540 **RATIONAL BEHAVIORAL THERAPY** (3).  
 CJ 542 **CRIMINAL JUSTICE ADMINISTRATION** (3) Organizational and management theories and practices in criminal justice settings.  
 CJ 560 **CONTEMPORARY ISSUES IN CRIMINAL JUSTICE** (3).  
 CJ 564 **OVERVIEW OF CONTEMPORARY CORRECTIONS** (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.  
 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.

## THE BACHELOR OF ARTS IN ECONOMICS

The Bachelor of Arts degree in economics offers students a liberal arts background and provides a thorough understanding of economic activity. The A.B. in economics is an appropriate background for a career in business or government. It also provides an excellent basis for graduate study in law and in business as well as in economics itself.

Economics majors gain a knowledge of the operation of the economy and experience with the methods of economic analysis. Specifically, students analyze such topics as inflation, unemployment, managerial decision-making, international trade, and governmental economic activity.

Requirements for the major include: EC 205, EC 206, EC 305, and EC 306; and 18 hours of economics electives,<sup>1</sup> at least 6 of which must be at the 400 level.<sup>2</sup>

<sup>1</sup> Up to 6 hours of industrial relations courses other than IR 320, IR 321 and IR495 may be substituted for up to 6 hours of 300 level economics courses.

<sup>2</sup> EC 440 Public Finance and/or EC 450 International Economics must be included.

*Staff:* DR. RANKIN, *chair*; DR. BERTAUX, DR. H. BRYANT, DR. COBB, DR. DONNELLY, DR. GERRING, DR. MARMO, DR. RASHED, DR. WEINBERG, DR. ZIMMERMAN.

*Assisted by:* MR. GREULICH, MS. HARMON, MR. PARKER

For course descriptions, consult the College of Business Administration section, on pages 129-130.

## THE DEPARTMENT OF EDUCATION

The Department of Education offers teacher certification programs approved by the Ohio State Board of Education as listed under Teacher Certification below, and awards the Bachelor of Science degree in several areas:

- Elementary Education (Grades 1-8)
- Elementary Education (Special Education)
- Physical Education and Health
- Teaching Biology and General Science (Grades 7-12)
- Teaching Chemistry and General Science (Grades 7-12)
- Montessori Education (Pre-K, K-3)

The Master of Education degree is available in many concentrations. See the MEd section below for the list of options. An Associate of Science degree in Early Childhood Education is also offered. Contact the Center for Adult and Part-time Students for more information on this degree.

### TEACHER CERTIFICATION

The department offers teacher certification programs, approved by the Ohio State Board of Education, for pre-kindergarten, kindergarten, elementary, special education, and secondary school teaching, as well as American Montessori Society certification in Montessori pre-primary and primary teaching.

The following pages outline the requirements for these certificates. Specific brochures of these programs are available and give suggested sequence of courses. In secondary teaching, the students take a major in their teaching field and completes certification requirements in professional education courses.

Certificates for teaching grades K-12 can be attained in the following fields:

- |                  |                    |
|------------------|--------------------|
| Health Education | Music              |
| Languages        | Physical Education |
| Library/Media    | Visual Arts        |

Secondary School Teaching certificates can be attained in the following subject fields:

- |                            |                       |
|----------------------------|-----------------------|
| Biology                    | Physical Education    |
| Bookkeeping/Basic Business | Physics               |
| Chemistry                  | Political Science     |
| Economics                  | Psychology/Sociology  |
| English                    | Visual Arts           |
| General Science            | Communications        |
| History                    | Humanities            |
| Library/Media              | Comprehensive Science |
| Mathematics                | Social Studies        |
| Music                      |                       |

Certificates can also be obtained in the following special education areas:

- |                             |                            |
|-----------------------------|----------------------------|
| Developmentally Handicapped | Specific Learning Disabled |
| Multihandicapped            | Gifted Education           |
| Severe Behavior Handicapped |                            |

Students must contact the director of their respective programs for specific requirements and regulations covering their area of certification.

## BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION GRADES 1-8

Requirements for this degree are:

1. 45 semester hours of Education courses including:
  - a. ED 100, 141, 142, 226, 250, 311, 312, 314, 315, 317, 343, 382, 385, and 438;
  - b. ED 399 Junior Elementary Field Experiences and ED 400 Elementary Student Teaching and Seminar.
2. 12 semester hours of history: HS 143, 144, a western civilization course, and a non-western civilization course.
3. 6-8 hours of science: one semester each of a biological science and a physical science with labs.
4. 6 hours of mathematics
5. Speech: CA 101 (3) Music: MU 121, 122 (2,2)  
Art: AR 221 (3) English Composition (3).
6. 20 semester hours in one of the following concentrations:  
humanities, mathematics, science, social sciences.

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

## BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION SPECIAL EDUCATION

Students seeking dual Special Education and Elementary Education certification must take several additional courses according to the Special Education area in which they plan to concentrate. These requirements are listed according to the certification area below:

### Developmentally Handicapped (DH)

- |        |  |
|--------|--|
| ED 345 | Education, Planning, & Curriculum Development for the Developmentally Disabled (2) |
| ED 436 | Occupational Orientation & Job Training: Developmentally Handicapped (2)           |
| ED 440 | Individual Assessment & Prescriptive Teaching: Exceptional Children (4)            |
| ED 441 | Methods & Materials: Exceptional Children (4)                                      |
| ED 443 | Counseling Parents of Exceptional Children (2)                                     |

### Multi-Handicapped (MH)

- |        |  |
|--------|--|
| ED 271 | Introduction to the Emotionally Disturbed Child (2)                                |
| ED 341 | Assessment & Prescriptive Teaching for the Multi-Handicapped (4)                   |
| ED 345 | Education, Planning, & Curriculum Development for the Developmentally Disabled (2) |
| ED 347 | Education of the Multi-Handicapped (2)   |
| ED 436 | Occupational Orientation & Job Training: Developmentally Handicapped (2)           |
| ED 443 | Counseling Parents of Exceptional Children (2)                                     |

### Severe Behavior Handicapped (SBH)

- |        |  |
|--------|--|
| ED 271 | Introduction to the Emotionally Disturbed Child (2)                        |
| ED 344 | Special Techniques: Severe Behavior Handicapped (2)                        |
| ED 440 | Individual Assessment & Prescriptive Teaching for Exceptional Children (4) |
| ED 441 | Methods & Materials: Exceptional Children (4)                              |
| ED 443 | Counseling Parents of Exceptional Children (2)                             |

**Specific Learning Disabled (SLD)**

- ED 271 Introduction to the Emotionally Disturbed Child (2)
- ED 440 Individual Assessment & Prescriptive Teaching for Exceptional Children (4)
- ED 441 Methods & Materials: Exceptional Children (4)
- ED 443 Counseling Parents of Exceptional Children (2)
- ED 445 Speech & Language Development (2)

**Gifted Education (GE)**

- ED 440 Individual Assessment & Prescriptive Teaching for Exceptional Children (4)
- ED 442 Education & the Psychology of the Gifted (2)
- ED 443 Counseling Parents of Exceptional Children (2)
- ED 447 Curriculum: Methods & Materials for the Gifted (4)

Three other courses -- ED 343 Education and Behavior Management (2), ED 438 Survey: Exceptional Children (2), and ED 400 Student Teaching and Seminar (9) -- are also integral components of Special Education certification.

Students seeking dual certification in Special Education and Elementary Education should be aware that in order to complete course requirements, summer session attendance may be necessary. Student teaching may exceed 15 weeks.

Students seeking Special Education certification should consult the Director of Elementary Education as to the proper courses and their sequence in the program.

## **BACHELOR OF SCIENCE IN PHYSICAL EDUCATION AND HEALTH**

Requirements for this degree are:

1. 62 semester hours of Education courses:
  - a. ED 131, 141, 142, 211, 215, 271, 368, 371, 377, 378, 379, 380, 381, 382, 385, 386, 387, 388, 389, 392, 438, 470, 475;
  - b. ED 400 ELEMENTARY STUDENT TEACHING AND SEMINAR;
  - c. two Coaching Level I courses  
two Coaching Level II courses  
one Health elective course.
2. 8 semester hours of Biology: BL 106, 107, 108, 109.
3. Mathematics: MT 146 (3) Speech: CA 101 (3)  
Theology: TH 310 (3) Philosophy: PL 329 (3)

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

## BACHELOR OF SCIENCE IN TEACHING BIOLOGY AND GENERAL SCIENCE

Requirements for this degree are\*\*:

1. 28 semester hours of Education courses:
  - a. ED 131, 141, 142, 201, 203, 211, 215, and 438;
  - b. ED 403 SUPERVISED STUDENT TEACHING AND SEMINAR.
2. 30 semester hours of Biology courses: BL 110, 111, 112, 113, 200, 201, 212, 213, 230, 360, 361, and six hours of BL electives.
3. 9 semester hours of Chemistry courses: CH 110, 111, 112, 113.
4. 14 semester hours of Physics courses: PH 104, 105, 106, 107, 116, 117, 118, 119.
5. 6 semester hours of Mathematics courses: MT 150, 156.

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

\*\* The program meets the State of Ohio certification requirements for Grades 7-12.

## BACHELOR OF SCIENCE IN TEACHING CHEMISTRY AND GENERAL SCIENCE

Requirements for this degree are\*\*:

1. 28 semester hours of Education courses:
  - a. ED 131, 141, 142, 201, 203, 211, 215, and 438;
  - b. ED 403 SUPERVISED STUDENT TEACHING AND SEMINAR.
2. 31 semester hours of Chemistry courses: CH 110, 111, 112, 113, 240, 241, 242, 243, 280, 281, 370 and six hours of CH electives (courses numbered 300 and above).
3. 9 semester hours of Biology courses: BL 110, 111, 112, 113.
4. 14 semester hours of Physics courses: PH 104, 105, 106, 107, 116, 117, 118, 119.
5. 6 semester hours of Mathematics courses: MT 150, 156.

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

\*\* This program meets the State of Ohio certification requirements for Grades 7-12.

## BACHELOR OF SCIENCE IN MONTESSORI EDUCATION

**Pre-Kindergarten State Certification  
American Montessori Society Certification for Ages 3 to 6 Years**

Requirements for this degree are:

1. 52 semester hours of Education courses including: ED 100, 141, 142, 226, 250, 314, 317, 343, 350, 351, 359, 385, 438, 454, 455, 456, 457, 458, and 459.
2. 12 semester hours of history: HS 143, 144, a western civilization course, and a non-western civilization course.
3. 8 semester hours of science: one semester each of a biological science and a physical science with labs.
4. Speech: CA 101 (3) Psychology: PS 232 (3)  
Art: AR 221 (3) Music: MU 121, 122 (2,2).
5. 20 semester hours in one of the following concentrations:  
humanities, mathematics, science, social sciences

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

**BACHELOR OF SCIENCE IN MONTESSORI EDUCATION****Elementary State Certification for K-3  
American Montessori Society Certification for Ages 6 to 9 Years**

Requirements for this degree are:

1. 54 semester hours of Education courses including: ED 100, 141, 142, 226, 250, 314, 317, 343, 350, 351, 352, 353, 354, 355, 356, 357, 358, 382, 385, and 438.
2. 12 semester hours of history: HS 143, 144, a western civilization course, and a non-western civilization course.
3. 8 semester hours of science: one semester each of a biological science and a physical science with labs.
4. Speech: CA 101 (3) Psychology: PS 232 (3)  
Art: AR 221 (3) Music: MU 121, 122 (2,2).
5. 20 semester hours in one of the following concentrations:  
humanities, mathematics, science, social sciences.

The university core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.

**THE MASTER OF EDUCATION**

The Master of Education, a professional degree, is designed to meet the needs of professional educators. This degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within the particular sphere of his influence by satisfactorily completing a program of graduate work designed to give these characteristics:

1. Broad knowledge of the principles and techniques of education in modern society.
2. Specific knowledge of one major area of the field of education.
3. Essential understandings and skills necessary for intelligent consumption of educational research.

To insure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs four general survey courses (or alternate courses as indicated) designed to provide integrated coverage of the broad field of education. These courses are:

- ED 501 **PHILOSOPHY OF EDUCATION (3)** (Montessori students take ED 641 **MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH** in lieu of 501.) ED 502 **HISTORY OF AMERICAN EDUCATION** may be taken in place of ED 501.
- ED 503 **ADVANCED EDUCATIONAL PSYCHOLOGY (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: (3)** in lieu of 505.)
- ED 507 **EDUCATIONAL RESEARCH (2)**.
- ED 508 **EDUCATIONAL RESEARCH PAPER (1)**.

To insure their mastery of a particular area of education, candidates must include a concentration of at least 12 credit hours in one of the following areas:

Administration, agency and community counseling, school counseling, elementary education, secondary education, physical education, developmentally handicapped, multi-handicapped, severe behavior handicapped, specific learning disabled, gifted education, Montessori education, computer science, reading specialist, educational media specialist,

personnel training, art, biology, business education, chemistry, classics, 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 Education Department Office. Separate folders are available for concentrations in educational administration, Montessori education, reading specialist, special education areas, personnel training, counseling, and media.

A minimum of thirty hours is normally 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 MEd (Counseling) requires a minimum of 36 semester hours.

The degree will be awarded only to candidates who have passed an extensive written examination covering their particular field of concentration (administration, counseling, 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 counseling, educational media, and personnel training and development may apply for a waiver of comprehensive examination and replace it with an extended practicum if approved by the director of the program.

Should the student fail the comprehensive examination, it may be repeated 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.

## Education (ED)

*Staff:* DR. KEOUGH, *chair*; DR. A. ANDERSON, DR. BOOTHE, DR. BRADLEY, MS. BRONSIL, DR. N. BRYANT, DR. FLICK, DR. GAFFNEY, MS. KIRK, DR. McCONNELL, MS. McDERMOTT, DR. POHLMAN, DR. PROSAK-BERES, DR. PRUDEN, DR. RIORDAN, SR. RISCHMANN, MR. SKEEL, MR. SULLIVAN, DR. WUBBOLDING

*Assisted by:* MR. BREEN, MR. BRANDT, MS. CHURCH-KISSEL, MS. DAHLMEIER, MS. DINKHELLER, DR. DRAUD, MR. EFFRON, MS. GIBSON, MR. GOULET, MS. GRAY, DR. GREEN, SR. HABIG, MS. HERSCHMAN, MS. HOTZ, DR. JURKOWITZ, MR. KESSINGER, MS. PARTRIDGE, MS. PERRY, MS. POHLMAN, DR. PRUDHOMME, MR. SETA, MRS. SOLOMON, MS. STAUB, MS. THOMAS, MR. TRAUTEN, DR. VARIS, MS. VERTUCA, MR. WONG

### Lower Division Courses

ED 100 **ELEMENTARY EDUCATION: AN INTRODUCTION** (3) The elementary school. A multi-cultural environment. History, philosophy, organization, problems, relation to society. Traits of effective teaching. Field experiences.

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 AND FIELD EXPERIENCES** (3) The secondary school. A multi-cultural environment. Legal, moral, professional responsibilities. Career opportunities. Organization, control, support, philosophical concepts. Field experiences.
- ED 141 **HUMAN GROWTH AND DEVELOPMENT I: THEORY** (2) 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: PRACTICE** (2) Human growth and learning. Evaluation, observation skills, behavior problems. Field experiences.

#### Upper Division Courses

- ED 200 **ADVANCED COMPOSITION FOR TEACHERS** (3) (EN 200).
- ED 201 **SECONDARY METHODS AND FIELD EXPERIENCE** (3) Methodology applicable to high school teaching in general. Methods best suited to each of the major content fields. Strategies in a multi-cultural society. Field experience. Materials fee: \$10.00.
- ED 202 **SCHOOL CURRICULUM AND FIELD EXPERIENCE** (3) The curriculum of the elementary and secondary schools. Principles and practices. Planning. Field Experiences. UNDERGRADUATE CREDIT ONLY.
- ED 203 **SECONDARY CURRICULUM AND FIELD EXPERIENCES** (3) Theory and practice. Planning, organization, and development of the secondary curriculum. Evaluation of pupil learning. Field experiences. UNDERGRADUATE CREDIT ONLY.
- ED 211 **CLINICAL EXPERIENCES (SECONDARY)** (1) Training in use of diagnostic materials. Field practice in diagnostic remediation. UNDERGRADUATE CREDIT ONLY.
- 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.
- 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 250 **CLASSROOM PRACTICES AND FIELD EXPERIENCES** (3). Learning styles, lesson planning, use of audio-visual technology, writing educational objectives, classroom management, and curriculum. Field experience.
- 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) (PS 271) Symptoms of maladaptive behavior in youngsters. Evaluation of etiological factors. Personality disorders. Services, facilities, and agencies for treatment.
- ED 274 **PSYCHOLOGY OF ADJUSTMENT** (2) (PS 274).
- ED 276 **PSYCHOLOGY OF DELINQUENCY** (2) (CJ 276, CJ 576, PS 276). Definition, causes and categories of delinquency. Court processes, court rulings, current philosophies, service agencies, personality and maladaptive disorders.
- ED 277 **ABNORMAL PSYCHOLOGY** (2-3) (PS 277).
- ED 305, **KINDERGARTEN METHODS AND MATERIALS I,II** (2,2) Two semesters. Pre-school childrens' physical, intellectual, social, and emotional development. Current research, materials, activities, and experiences. Individual development of materials.
- ED 306
- ED 311 **TEACHING SCIENCE IN THE ELEMENTARY SCHOOL** (2) Curriculum integrated course in science. Prerequisites: ED 100 and 250.
- ED 312 **TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL** (2) Curriculum, multi-cultural implications. Prerequisites: ED 100 and 250.



- ED 314 **THE TEACHING OF READING** (3) Developmental process of reading, approaches to teaching reading, reading in the content areas, determining needs of children.
- ED 315 **TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL** (3) The modern mathematics curriculum in the elementary school. Materials, methods, and content.
- ED 317 **TEACHING LANGUAGE ARTS AND LINGUISTICS IN THE ELEMENTARY SCHOOL** (3) Curriculum, oral and written language, spelling, mechanics of writing, linguistics. Multi-cultural implications. Prerequisite: ED 100 and 250.
- ED 325 **TEACHING MODERN LANGUAGE** (3) (FR 325, GR 325, SP 325).
- ED 341 **ASSESSMENT AND PRESCRIPTIVE TEACHING FOR THE MULTI-HANDICAPPED** (4) Assessment procedures and techniques, diagnostic instruments, prescriptive teaching methods.
- ED 343 **EDUCATION AND BEHAVIOR MANAGEMENT** (2) Instruction and curriculum, behavior modification and classroom management approaches, learning style relationship to behavior, behavior consultation models.
- ED 344 **SPECIAL TECHNIQUES: SEVERE BEHAVIOR HANDICAPPED** (2) Teaching techniques, modifying behavior, the disruptive child, special issues.
- ED 345 **EDUCATION, PLANNING AND CURRICULUM DEVELOPMENT: DEVELOPMENTALLY DISABLED** (2) Methods, techniques, skills and competencies, current teaching styles. Curriculum planning and implementation, group and individual strategies for developmentally disabled.
- ED 347 **EDUCATION OF THE MULTI-HANDICAPPED** (2) Psychology of the multi-handicapped, curriculum planning, task analysis, functional skills, use of prosthetic devices.
- 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 video taped 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 OVER VIEW** (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) Level II.
- ED 370 **COACHING WRESTLING** (2) Elective. Upper division students only. Level II.
- ED 371 **COACHING TUMBLING AND GYMNASTICS** (3) Upper division students only.
- ED 372 **COACHING FOOTBALL** (2) Level I.
- ED 373 **COACHING BASKETBALL** (2) Level I.
- ED 374 **COACHING BASEBALL** (2) Level I.
- ED 375 **COACHING TRACK AND FIELD** (2) Level II.
- ED 376 **THEORY OF OFFICIATING** (2) Elective. Upper division students only. Level 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 HEALTH AND HYGIENE** (2). Basics of health and hygiene. Public health agencies. Implications for elementary classroom.
- ED 383 **COACHING WOMEN'S TEAMSPORTS** (2) Level II.
- ED 384 **COACHING TENNIS** (2) Level II.
- ED 385 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL** (2) Rules and regulations of sports and games used in the elementary school. Participation.
- 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 399 **JUNIOR ELEMENTARY FIELD EXPERIENCES** (2) Teaching and evaluation; major subject areas: reading, language arts, mathematics, social studies, and science.
- ED 400 **ELEMENTARY STUDENT TEACHING AND SEMINAR** (9) Laboratory experience under the direction of a critic teacher with accompanying seminar that consider professional problems. UNDERGRADUATE CREDIT ONLY.
- ED 401 **INTRODUCTION TO DRIVER ED AND TRAFFIC SAFETY** (3) State Board standards, State Department of Highways standards, psychological factors in driving. Visual testing, alcohol and drugs. Methods. Reaction time, depth perception.
- ED 402 **ORGANIZATION AND ADMINISTRATION OF DRIVER TRAINING AND SAFETY EDUCATION** (3). Standards, scheduling, selection and procurement of vehicles, laws and regulations. Vehicle maintenance. Methodology for in-car experiences.
- ED 403 **SUPERVISED STUDENT TEACHING AND SEMINAR** (9) Laboratory experience in secondary school teaching for one semester under a critic teacher. Weekly seminar. UNDERGRADUATE CREDIT ONLY.
- ED 436 **OCCUPATIONAL ORIENTATION AND JOB TRAINING FOR THE DEVELOPMENTALLY HANDICAPPED** (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 438 **SURVEY: EXCEPTIONAL CHILDREN** (2) The exceptional child: developmental disabilities and handicapping conditions, etiology, classification systems, problems of adjustment. UNDERGRADUATE CREDIT ONLY.
- ED 440 **INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING; EXCEPTIONAL CHILDREN** (4) Fee: \$10.00 UNDERGRADUATE CREDIT ONLY.
- ED 441 **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN** (4) UNDERGRADUATE CREDIT ONLY.
- ED 442 **EDUCATION AND PSYCHOLOGY OF THE GIFTED** (2) Characteristics and needs of the gifted students. Identification processes. UNDERGRADUATE CREDIT ONLY.
- ED 443 **COUNSELING PARENTS OF EXCEPTIONAL CHILDREN** (2) UNDERGRADUATE CREDIT ONLY.

- 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. UNDERGRADUATE CREDIT ONLY.
- ED 445 **SPEECH AND LANGUAGE DEVELOPMENT** (2) Acquisition, development and problems of speech and language. Assessment, remediation, and educational roles.
- ED 447 **CURRICULUM: METHODS AND MATERIALS FOR THE GIFTED** (4) Teaching learning models and strategy of higher levels of thinking. Practicum. UNDERGRADUATE CREDIT ONLY.
- ED 448 **TEACHING PRACTICUM: SPECIAL EDUCATION** (3) UNDERGRADUATE CREDIT ONLY.
- ED 454 **MONTESSORI METHODS AND MATERIALS I** (3) UNDERGRADUATE CREDIT ONLY.
- ED 455 **MONTESSORI METHODS AND MATERIALS II** (3) UNDERGRADUATE CREDIT ONLY.
- ED 456 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: PRE-PRIMARY** (3) UNDERGRADUATE CREDIT ONLY.
- ED 457 **MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: PRE-PRIMARY** (3) UNDERGRADUATE CREDIT ONLY.
- ED 458 **MONTESSORI PRE-PRIMARY INTERNSHIP I** (3) UNDERGRADUATE CREDIT ONLY.
- ED 459 **MONTESSORI PRE-PRIMARY INTERNSHIP II** (3) UNDERGRADUATE CREDIT ONLY.
- ED 463, **THEORIES OF PERSONALITY I, II** (2-3 each semester) (PS 463, 464) Prerequisites: ED 464 12 semester hours in psychology.
- ED 470 **TEACHING BASIC AQUATICS** (2).
- ED 475 **NUTRITION & HEALTH** (2).
- ED 476 **COACHING SOCCER** (2) Level 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. Societal differences.
- ED 502 **HISTORY OF AMERICAN EDUCATION** (3) Colonial period, the early national period, educational developments of the 19th century, the 20th century, the political, social, and economic scene. Multi-cultural society. Educational ideas.
- ED 503 **ADVANCED EDUCATIONAL PSYCHOLOGY** (3) (PS 503) Major aspects of child and adolescent growth and development. The learning process and factors influencing learning.
- ED 505 **EDUCATIONAL ADMINISTRATION** (3) Relationships of the federal, the state, and the local government to public and private education. Administrative functions as operable in the elementary, middle, and secondary school. Multi-cultural implications.
- ED 507 **EDUCATIONAL RESEARCH** (2) Methodology of educational research. Statistics in research. Locating educational research. Corequisite: ED 508.
- ED 508 **EDUCATIONAL RESEARCH PAPER** (1) Corequisite: ED 507.
- 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 521 **AUDIOVISUAL COMMUNICATION** (3) (CA 290) Design, production, selection/evaluation, utilization of media for instruction.
- ED 522 **VISUAL COMMUNICATION DESIGN** (3) (CA 291) Research and theory, design, production, and evaluation of still visual instructional, informational, and aesthetic materials. Graphic and photographic materials.
- ED 525 **ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS** (3) (CA 292) Organization, administration, and utilization of elementary and secondary school media centers. Organizational and personnel management of educational media resources.
- ED 523 **REFERENCE SERVICE** (3) Bibliographical and reference materials in subject fields. Training and practice in solving questions arising in reference services.
- ED 524 **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 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 533 **COUNSELING PRINCIPLES AND TECHNIQUES** (3) (PS 533) Theory of counseling, case method, relationships to testing and to other sources of data, interviewing, place and value of records, clinical procedures.
- 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** (3) (PS 536) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work.
- ED 537 **ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES** (2) Principles. Administrative operations, budget, public relations, the guidance worker in the school, agency or institution, organization services.
- ED 539 **INDIVIDUAL COUNSELING LABORATORY** (3) Individual clients, interviewing skills, data collecting and recording, interagency collaboration. Prerequisites: ED 533, 579. By Reservation only.
- ED 540 **FIELD EXPERIENCE IN GUIDANCE** (3) Supervised experiences in a school or agency setting, practice in services, seventy-five clock hours in-school contact with a school counselor. Prerequisite or Corequisite: ED 539. 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.
- 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) Seminar.
- ED 550 **SCHOOL ADMINISTRATION: ORIENTATION** (3) 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) Budgetary control, purchasing, food, supplies, equipment and machinery, school insurance, plant records, maintenance and repair, pupil transportation, utilization of facilities. Sites.
- 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. Economic system and 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) (PS 279) Group tests. Testing procedures. Rationale of intelligence, aptitude, achievement, interest, and personality tests. Selection and evaluation of group tests.
- ED 580 PSYCHOPATHOLOGY (2) (PS 580).
- ED 582 INDIVIDUAL TESTS OF INTELLIGENCE (4) (PS 582) Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence.
- 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 608 GATB TRAINING (1-2) Fee: \$25.00.
- ED 615 WORKSHOP: GROUP DYNAMICS (2) Materials fee: \$15.00.
- ED 620 ALCOHOL EDUCATION (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 634 **DISRUPTIVE CHILD** (2).
- ED 635 **GUIDANCE AND DISCIPLINE** (2) Approaches to discipline. Discipline and punishment. Current theories concerning discipline are reviewed that are helpful to teachers, counselors, and administrators.
- ED 636 **CAREER DEVELOPMENT AND INFORMATION SERVICES** (3) 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 638 **SURVEY OF EXCEPTIONAL CHILDREN** (2) The exceptional child: developmental disabilities and handicapping conditions, etiology, classification systems, problems of adjustment.
- ED 640 **INDIVIDUAL ASSESSMENT AND PRESCRIPTIVE TEACHING: EXCEPTIONAL CHILDREN** (4) Assessment techniques and procedures, diagnostic instruments, actual administration of instruments, prescriptive teaching methods. Practicum. Prerequisite: ED 638. Materials fee: \$10.00.
- ED 641 **METHODS AND MATERIALS: EXCEPTIONAL CHILDREN** (4) Instructional models for exceptional children. Materials, practical application. Practicum. Prerequisite: ED 638.
- 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 **SPECIAL TECHNIQUES: SEVERE BEHAVIOR HANDICAPPED** (2) Teaching techniques, modifying behavior, the disruptive child, special issues.
- ED 645 **EDUCATION, PLANNING AND CURRICULUM DEVELOPMENT: DEVELOPMENTALLY DISABLED** (2) Methods, skills and competencies, teaching styles. Curriculum planning and implementation, strategies for developmentally disabled.
- ED 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD** (3) (PS 646) 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.
- ED 647 **EDUCATION OF THE MULTI-HANDICAPPED** (2) Psychology of the multi-handicapped. Curriculum planning, task analysis, functional skills, use of prosthetic devices.
- ED 648 **TEACHING PRACTICUM: SPECIAL EDUCATION** (2-3) (PS 648) Supervised teaching. Placements include public and private schools, agencies, orphanages, state institutions. Open only to certified teachers. By reservation only.
- 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) (PS 652) The pre-schooler. Current theory and research are related to Maria Montessori's concept of the child.
- ED 653 **EARLY COGNITIVE DEVELOPMENT** (3) (PS 653) 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.
- 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) School curriculum as personal and social environments and constructs, appropriate teaching strategies, examining personal/professional attitudes, practices, values, roles, goals. Evaluation.
- 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.
- ED 664 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS** (3) (PS 644, MG 644).
- ED 665 **INSTRUCTIONAL TECHNOLOGY** (3) Instructional management functions, instructional development functions, instructional system components.
- ED 666 **EDUCATIONAL MEDIA PRACTICUM** (3-9) By arrangement. Field experience working in a media center under supervision for one or two semesters at the level of certification desired.
- ED 669 **PRACTICUM: PERSONEL TRAINING, EDUCATION AND DEVELOPMENT I** (3).
- ED 670 **PSYCHOLOGY OF READING** (2) (PS 670) 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.
- 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 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. Prerequisite: ED 314 or 215.
- ED 679 **PRACTICUM IN READING** (3) Supervised practice in remedial and developmental reading. Prerequisite: ED 678. By reservation only.
- ED 681 **PRACTICUM: PERSONNEL TRAINING EDUCATION AND DEVELOPMENT II** (3).
- ED 683 **ADULT LEARNING** (3) Needs and characteristics of adult learner. Preferred learning style, personal experiences, human resources, change.
- ED 684 **PERSONNEL TRAINING, EDUCATION, AND DEVELOPMENT** (3).
- ED 685 **ORGANIZATIONAL COMMUNICATION** (3).
- 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** (3) Current issues and developments in the application of technology in education and training. Future trends for technology in education and training.
- ED 689 **PRACTICUM: EDUCATIONAL TECHNOLOGY** (3).
- ED 695 **RESEARCH: SPECIAL AREA** (1-2) Individual research in any special area to be specified. Prerequisite: ED 507.

- 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 717 **COGNITIVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS (1)** (PS717).
- ED 730 **HISTORY AND SYSTEMS: COMMUNITY AND AGENCY COUNSELING (2).**
- ED 731 **SEMINAR: PROFESSIONAL COUNSELOR (2)** Professional, legal, and ethical aspects of counseling. Case discussion, professional ethical codes, professional organizations.
- ED 733 **INTENSIVE COUNSELING PRACTICUM (2).**
- ED 736 **CROSS-CULTURAL COUNSELING (2)** Social forces and cultural changes, equity issues involving ethnicity, gender, race, age, and socioeconomic groups.
- ED 740 **FAMILY RELATIONS (2)** History of family, current trends, problems, chemical dependency, child abuse, changing roles, family counseling.
- ED 741 **ASSESSMENT AND PRESCRIPTIVE TEACHING FOR THE MULTI-HANDICAPPED (4)** Assessment procedures and techniques, diagnostic instruments, prescriptive teaching methods.
- ED 742 **EDUCATION AND PSYCHOLOGY OF THE GIFTED (2)** Characteristics and needs of the gifted students. Identification processes.
- ED 743 **EDUCATION AND BEHAVIOR MANAGEMENT (2).**
- ED 744 **EARLY CHILDHOOD - EXCEPTIONAL CHILD (2).**
- ED 745 **SPEECH AND LANGUAGE DEVELOPMENT (2)** Acquisition, development and problems of speech and language. Assessment, remediation and educational roles.
- ED 747 **CURRICULUM: METHODS AND MATERIALS FOR THE GIFTED (4)** Teaching-learning models and strategy of higher level of thinking. Practicum.
- 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).**



## THE DEPARTMENT OF HOSPITAL AND HEALTH ADMINISTRATION

The Department of Hospital and Health Administration offers a Master in Hospital and Health Administration (MHA) degree.

### 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 political sciences, statistics, accounting, decision sciences, and the communicative arts.

### Prerequisites

Students are expected to have completed the following prerequisites prior to matriculation:

Basic Accounting.....6 credit hours      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.

The 60 graduate semester hours for the MHA degree include:

- a. 50 hours of course work, (38 required hours and 12 elective hours);
- b. 10 hours of Administrative Residency and Master's Project.

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.

### Component Areas:

#### I. Organizational Behavior

\*\*Organizational Behavior

\*Human Resources Administration in Health Care Organizations

\*Theory in Planning and Strategic Management

Executive Communications - Verbal, Written, and Computers

#### II. Economic/Political/Social Issues

\*Health Care Legal Aspects

\*Economic & Political Issues in Health Care Policy

Medical Moral Issues

Risk Management

Politics in Health Care

#### III. Decision Quantitative Techniques

\*Quantitative Methods for Health Care Managers I

\*Quantitative Methods for Health Care Managers II

#### IV. Finance

\*\*Corporate Finance

\*Management Accounting for Health Care

\*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
  - Aging in Our Society
  - Administration of Agencies Serving the Aged
  - Administration of Institutions Serving the Aged
  - Ambulatory and Managed Care Systems

**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

\*\* These must be taken if competency cannot be demonstrated.

Electives are available in business administration, psychology, education, theology, and through the Greater Cincinnati Consortium of Colleges and Universities.

**Long-Term Care Administration**

This concentration in the program is recognized by the Ohio State Board of Examiners of Nursing Home Administrators. As such, candidates completing this program may sit for the licensure exam immediately after receipt of the degree.

To fulfill this concentration within the program, the candidate must successfully complete the following courses. See course descriptions below.

- HA 800 Aging in our Society
- HA 810 Administration of Agencies Serving the Aged
- HA 815 Administration of Institutions Serving the Aged.

**Administrative Residency**

Refer to the course descriptions below for information on the Administrative Residency.

**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.

**Weekend M.H.A. Program**

The Weekend M.H.A. program is designed for practicing health care managers. The course work complements the full time working status of these managers. Courses are offered so that students may pursue graduate studies on alternating Fridays and Saturdays through the year. By taking the course work on these full days, the student can complete all of the requirements for the master's degree in twenty-six months. The content is the same as the traditional M.H.A. degree and the courses are taught by the departmental faculty.

**Additional Information**

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 or by calling (513) 745-3392.

## Hospital and Health Administration (HA)

*Staff:* DR. ARLINGHAUS, *chair*; DR. BOCKLET, *associate director*; DR. GEROWITZ,

MS. ROGERS, DR. ROTHE

*Assisted by:* MR. BAYOWSKI, MR. BECKMAN, DR. BURKE, DR. ELKUS,

MR. KAPPES, MR. MAGGART, MR. MURPHY, MR. NISSLEY, DR. PHILLIPPS, DR. POOLE,  
MS. SCHWALLIE, DR. ROGERS

- HA 501 **EXECUTIVE COMMUNICATIONS-VERBAL** (1) Designed to improve the speaking skills of the student. Presents principles of speech organization and effective delivery of speeches.
- HA 502 **EXECUTIVE COMMUNICATIONS-COMPUTERS** (1) Designed to familiarize the student with basic computer operations and programs to assist them with their graduate studies and work.
- HA 503 **EXECUTIVE COMMUNICATIONS-WRITTEN** (1) Enables the student to produce improved letters, memos, and other documents.
- HA 510 **HEALTH CARE ORGANIZATION I** (3) Analyzes the U.S. health care system, focusing on delivery settings and effects of biological, behavioral, societal, organizational, and environmental factors.
- HA 513 **MANAGEMENT ACCOUNTING FOR HEALTH CARE** (3) Basic financial concepts, terms, and techniques to record changes in financial position and their results of operations in health care organizations.
- HA 515 **HEALTH CARE ORGANIZATION II** (3) Examines hospital departmental operations to enable the practitioner to organize and coordinate the efforts of each service so as to achieve cost effective patient care.
- HA 550 **HEALTH CARE LEGAL ASPECTS** (3) Describes the legal climate within which the health care institution operates, emphasizing legal concepts that influence the activities of health care administrators.
- HA 570 **DETERMINANTS AND MEASURES OF HEALTH, DISEASE & DISABILITY** (2) Encompasses the study of health and disease and the evaluation of acute care, preventative and chronic care interventions through the application of epidemiological methods.
- HA 610 **QUANTITATIVE METHODS FOR HEALTH CARE MANAGERS I** (3) Techniques such as linear programming, transportation, inventory, queuing, PERT/CPM, simulation, and statistical forecasting.
- HA 615 **QUANTITATIVE METHODS FOR HEALTH CARE MANAGERS II** (3) Introductory course in Industrial Engineering and statistical quality control. While grounded in theory, the course is heavily oriented toward the practical application of industrial engineering methods in a health care setting. Prerequisite: HA 610.
- HA 620 **FINANCIAL MANAGEMENT OF HEALTH CARE ORGANIZATIONS** (3) Emphasizes alternative reimbursement systems, budgeting and control processes, capital financing, feasibility analysis, and cost determination.
- HA 660 **HUMAN RESOURCES MANAGEMENT IN HEALTH CARE ORGANIZATIONS** (3) Focuses on recruitment, wage and salary administration, employee development programs, and union/management relations.
- HA 720 **ECONOMIC AND POLITICAL ISSUES IN HEALTH CARE POLICY** (3) Designed to examine frameworks and research conclusions as they affect informed public policy and institutional strategy formulation.
- HA 725 **THEORY IN PLANNING AND STRATEGIC MANAGEMENT** (3) Concepts and theories underlying the relationships between organizations and their environments and the processes available to design and implement structures responsive to both external and internal demands.
- HA 781 **POLITICS IN HEALTH CARE** (1) Applies the concepts and dynamics of power, authority, and influence to legislative and lobbying processes.
- HA 795 **MEDICAL-MORAL ISSUES** (3) Surveys contemporary social issues including euthanasia, sterilization, abortion, genetics, behavior control, and distributive justice.

- HA 800 **AGING IN OUR SOCIETY** (3) Examines the areas of biology, sociology, and psychology of aging. Research methodologies used in the field of aging are all stressed.
- HA 810 **ADMINISTRATION OF AGENCIES SERVING THE AGED** (3) Examines and evaluates the range and relationship of community services, both existing and proposed, for chronically ill patients and an aging population.
- HA 815 **ADMINISTRATION OF INSTITUTIONS SERVING THE AGED** (3) Examines the role of the administrator in developing and administering policies and programs to meet the needs of chronically ill patients of an aging population.
- HA 840 **AMBULATORY AND MANAGED CARE SYSTEMS** (2) Evaluates management issues encountered in various ambulatory care settings under a number of organizational arrangements.
- HA 895 **CAPSTONE SEMINAR** (3) Integrates management issues in ambulatory care, long-term care, acute care, and mental health settings. Concepts and techniques of organizational behavior, planning, finance, and control acquired in the core curriculum are 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) The student resident will receive first hand knowledge of operational problems of daily and continuing concern to management of health care institutions including: governance process; departmental structure, planning and financial management, and human resources development.
- HA 691 **PRACTICUM IN EXECUTIVE DEVELOPMENT** (2) Provides the student with the opportunity to observe executive role models and assess and develop their own management philosophies.
- HA 699 **MASTER'S PROJECT** (6) The project usually reflects an aspect important to both the student and the preceptor. The project may take the form of: hypothesis testing, management studies, competency demonstrations, or case studies analyzing organizational policy or program implementation processes.

## THE DEPARTMENT OF MILITARY SCIENCE

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.

Army 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.

**RESERVED OFFICERS' TRAINING CORPS (ROTC)  
COMMISSIONING REQUIREMENTS**

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
<b>Freshman Year</b>			
MS 101 - Intro. to Leadership I . . . . .	1	MS 102 - Intro. to Leadership II . . . . .	2
MS 107 - Leadership Laboratory* . . . . .	1	MS 108 - Leadership Laboratory* . . . . .	1
<b>Sophomore Year</b>			
MS 103 - Oral Communications . . . . .	3	MS 134 - Hist. Military Perspective . . .	3
MS 109 - Leadership Laboratory* . . . . .	1	MS 110 - Leadership Laboratory* . . . . .	1
<b>Junior Year</b>			
MS 201 - Basic Military Tactics . . . . .	3	MS 202 - Advanced Military Tactics . . .	3
MS 207 - Leadership Laboratory* . . . . .	1	MS 208 - Leadership Laboratory* . . . . .	1
<b>Senior Year</b>			
MS 203 - The Military Team . . . . .	2	MS 204 - Professional Development . . .	2
MS 209 - Leadership Laboratory* . . . . .	1	MS 210 - Leadership Laboratory* . . . . .	1

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.

\* All students taking military science courses are required to enroll in the appropriate leadership laboratory. Each laboratory is a co-requisite and may not be taken alone.

*Staff:* LTC BRAUER, *chair*; MSG DOWELL, MAJ FRICK, MAJ HOON, CPT JOHNSON, CPT McFARLAND

*Assisted by:* SGM NELSON, SFC PERRY, MR. WHEELER, MR. LOCKARD

**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.
- 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 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 105 **ROTC LEADERSHIP CAMP** (4) Six weeks of paid Army ROTC training at Fort Knox, Kentucky during the summer. Especially designed as a substitute for other lower division courses. Camp graduates are eligible to enter the Army ROTC Advanced Course.
- MS 107 **FRESHMAN LEADERSHIP LABORATORY** (1) Military courtesy, customs and 108 traditions of the service; basic military skills, drill experience, development of initiative and self-confidence, physical training, rappelling, and marksmanship techniques.

- MS 109-SOPHOMORE LEADERSHIP LABORATORY (1) Functions, responsibilities and 110 duties of junior Non-commissioned Officers with particular attention devoted to the continued development of leadership potential. Drill and ceremony, map reading, and physical training are stressed.
- 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.
- 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 207-JUNIOR LEADERSHIP LABORATORY (1) Designed to develop leadership potential by participation in the planning and conducting of training, development of personnel management skills and by emphasizing the functions, duties and responsibilities of senior Non-commissioned Officers. Physical training and preparation for summer camp are stressed.
- MS 209-SENIOR LEADERSHIP LABORATORY (1) Emphasizes the functions, duties and 210 responsibilities of junior Army Officers with special attention directed toward developing advanced leadership potential, personal communications (oral and written) skills and through active participation in the planning and conducting of training. Physical training and preparation for commissioning are stressed.
- MS 220 ARMY ROTC ADVANCED CAMP (4) This training is conducted at Fort Lewis, Washington, and normally takes place in the summer following the junior year. This internship is six weeks in duration and oriented on the execution of Advanced Military Tactics, Cadet Leadership ability, and physical endurance. It may be substituted by attendance at the U.S. Army Ranger School by qualified students.
- MS 290 SPECIAL INSTRUCTION Credit to be arranged.

### PREMORTUARY SCIENCE CURRICULUM

Most states require one or two years of general college coursework prior to admission into mortuary college. Xavier University offers a specific two-year non-degree 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.

The requirements for this 60-hour program are:

Required Courses - 21 hours

EN 101, SO 101, PS 101, CA 101, EC 205 and 206, MK 300

Elective Courses - 39 hours

6 hours of History (100-level)

12 hours of Humanities (6 hours Lit.)

3 hours of Theology/Philosophy

6 hours of Biology

6 hours of Mathematics

6 hours of Free Electives

Call the Center for Adult and Part-time Students at 745-3355 for more information.

# THE DEPARTMENT OF NURSING

The Department of Nursing offers the Bachelor of Science in Nursing degree and the Associate of Science in Nursing degree.

## THE BACHELOR OF SCIENCE IN NURSING

(For Registered Nurses)

The Department of Nursing offers an NLN accredited two-year upper division Bachelor of Science degree in nursing 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 requires a liberal arts and science core curriculum as well as designated biological and social science courses as prerequisites. The program assists the student in viewing individuals holistically. The curriculum focuses on meeting the specific learning needs of each student and on preparing professional nurses to practice nursing as generalists.

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. Contact the department chair for information (513-745-3814).

### Requirements

1. Registered nurses must meet the Xavier University requirements of 120 credit hours\*. Of these there are:

- a. **University Core: 47 credits**

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

- b. **Department of Nursing prerequisite or corequisite courses: 22 credits**

<b>Science</b>		<b>Social Science</b>	
Computer Science** . . . . .	1	Sociology--upper division . . . . .	3
Anatomy & Physiology+ . . . . .	8	Psychology elective+ . . . . .	3
Advanced Physiology+ . . . . .	3		
Microbiology+ . . . . .	4		

- c. **Department of Nursing required major courses: 45 credits**

Lower Division . . . . .	16
Upper Division . . . . .	29

- d. **Free electives to reach 120 credit hours: 6 credits**

Free Elective . . . . .	6
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2. Achieve an overall grade point average of 2.50 for entrance to the upper division nursing courses and a grade of "C" or better in the biological sciences and professional courses.

- \* Transfer credit for comparable courses completed with a grade of "C" or better from an accredited university or college or establishment of credit for previous education through challenge examinations may apply to these credits;
- + Prerequisite for clinical nursing courses
- \*\* Prerequisite for NR 400

## THE ASSOCIATE OF SCIENCE IN NURSING

The Associate of Science degree in Nursing (ASN) is a two year academic program designed to prepare nurses to practice technical nursing skills in a hospital or other health care facility. Students in the program will be qualified to take the state licensure exam for RNs following graduation.

### Requirements:

1. 33 hours of nursing: NR 101, 102, 103, 111, 112, 113, 201, 202, 203, 205, 211, 212, 213, 214
2. 16 hours of biology and chemistry: BL 106, 107, 108, 109, 210, and 211, CH 116 and 117
3. 21 hours of liberal arts courses: PL 100, TH 111, EN 101, PS 101, SO 101, literature elective, and history elective.

## Nursing (NR)

Staff: DR. PETTIGREW, *chair*; MS. AUGSPURGER, MS. BYRNE, DR. DECLAIRE, MS. HAAS, MS. KING, MS. LANIG, MS. MILLER, MS. MOORE, MS. NAMEI, MS. PROFFIT, MS. SCHMID, MS. SCHMIDT

### Lower Division (ASN) Courses

- NR 101 **INTRODUCTION TO NURSING (4)** An overview of the major concepts of the curriculum with emphasis on the nursing process and the roles of the associate degree nurse. Corequisite: NR 111.
- NR 102 **NURSING I (2)** Functional and dysfunctional health patterns related to mental health are discussed, with emphasis placed on therapeutic relationships, assessment, and care of clients with dysfunctional health patterns. Corequisite: NR 112
- NR 103 **NURSING II (2)** Medical-surgical conditions which cause dysfunctional health patterns for the adult client are discussed. Corequisite: NR 113
- NR 111 **INTRODUCTION TO NURSING LAB (3)** Laboratory experience giving the student an opportunity to learn psychomotor and communication skills needed for the implementation of standard nursing interventions for clients with common well-defined health problems. Corequisite: NR 101
- NR 112 **NURSING I LAB (2)** Experiences in application of the nursing process in selected psychiatric settings. Corequisite: NR 102.
- NR 113 **NURSING II LAB (2)** Experiences in application of the nursing process in selected adult medical-surgical settings. Corequisite: NR 103.
- NR 201 **NURSING III (2)** Functional and dysfunctional health patterns associated with childhood or adolescence are discussed. Developmental problems and patterned responses of the client and family are also covered. Corequisite: NR 211
- NR 202 **NURSING IV (2)** Functional and dysfunctional health patterns associated with women and the expanding family are discussed. Developmental problems and patterned responses of the client and family are also covered. Corequisite: NR 212
- NR 203 **NURSING V (4)** Complex medical-surgical conditions which cause dysfunctional health patterns for the adult client are discussed. Corequisite: NR 213
- NR 205 **ISSUES IN NURSING (1)** Analysis of current issues affecting nursing and the impact these issues have on quality care.



- NR 211 **NURSING III LAB (2)** Experiences in application of the nursing process in selected pediatric settings. Corequisite: NR 201.
- NR 212 **NURSING IV LAB (2)** Experiences in application of the nursing process in selected women's health settings. Corequisite: NR 202.
- NR 213 **NURSING V LAB (4)** Experiences provided to practice the multiple roles of the AD nurse while practicing as an interdependent member of the health team.
- NR 214 **CLINICAL TRANSITION LAB (1)** Focus on observation of preceptor nurses in a variety of clinical practice areas.

#### 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. Corequisite: NR 311. Prerequisites: BL 362, NR 300.
- NR 302 **NURSING PROCESS II (3)** Exposes the student to the broad concepts of community health through application of the nursing process. Health promotion and disease prevention for the high-risk expanding family. Corequisite: NR 312. Prerequisites: NR 301, 311.
- NR 304 **CULTURAL DIVERSITIES AND LIFE STYLES IN HEALTH AND NURSING. (2)** World, national, and state health care needs and systems. Health care planning for diversified cultures. Cultural norms that influence nursing care and health practices.
- NR 310 **INDEPENDENT STUDY IN NURSING (1-3).**
- NR 311 **NURSING PROCESS I PRACTICUM (2)** Practice settings for development of assessment skills are provided in campus laboratories and community agencies. Corequisite: NR 301.
- NR 312 **NURSING PROCESS II PRACTICUM (2)** Clinical experiences in the local health department and other related community agencies are employed. Corequisite: NR 302.
- 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 401 **NURSING PROCESS III (3)** Focus on concepts related to healthy behaviors of individuals in the young adult, middle, and later years. Corequisite: NR 411. Prerequisites: NR 302, 312.
- NR 402 **NURSING PROCESS IV (3)** Leadership and management in nursing practice. Collaboration, coordination, evaluation, and advocacy in planning for and administering care to individuals, families and groups. Corequisite: NR 412. Prerequisites: NR 401, 411.
- 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. Taken last semester of program.
- NR 411 **NURSING PROCESS III PRACTICUM (2)** Health delivery for the adult client in a variety of health care agencies. Corequisite: NR 401.
- NR 412 **NURSING PROCESS IV PRACTICUM (2)** Principles of leadership and management in nursing are applied in a variety of health care settings. Corequisite: NR 402.

## THE DEPARTMENT OF POLITICAL SCIENCE AND SOCIOLOGY

The Department of Political Science and Sociology offers three bachelor degrees: the Bachelor of Arts in Political Science, the Bachelor of Arts in International Affairs, and the Bachelor of Arts in Sociology, and Associate of Arts degrees in Political Science and Sociology. For information on the Associate degrees, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF ARTS IN POLITICAL SCIENCE

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, international management, public administration, and business.

The Department of Political Science and Sociology offers the Bachelor of Arts in political science. This program requires the following courses: PO 101, PO 110, PO 221, PO 233, PO 352, PO 377, and either PO 390 or PO 391. Students then elect an additional four to six courses in the major for a total of 33 to 39 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., Tokyo Japan, Oxford England, 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.

### THE BACHELOR OF ARTS IN INTERNATIONAL AFFAIRS

#### Field of Concentration Business or Modern Europe

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 350, PO 249, PO374, PO 377, PO 110, and PO 376. In addition, the student selects one of the following two fields of concentration: Business, or Modern Europe.

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

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

### THE BACHELOR OF ARTS IN SOCIOLOGY

Sociology, the study of human behavior in the group context, 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, 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 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 (2) service and graduate study in the professions; (3) careers in the fields of pure and applied research; (4) careers in applied sociology such as administration and consultant positions, in business, government, and community work. Students interested in applied sociology should consult with the department.

Students majoring in sociology must complete the following courses for 30 hours: SO 101, SO 180, SO 300, SO 352, SO 353, and a second theory-based course - either SO 265 or SO 266, and four additional upper division sociology courses. Sociology majors take MT146 as part of the university mathematics requirements. The department encourages experiential learning.

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.

## Political Science and Sociology

*Staff:* DR. WEISSBUCH, *chair*; FR. JOHNSON, DR. MOULTON, DR. RAY, DR. STINSON, DR. WHITE

*Assisted by:* MR. BEAUPRE, MS. GOODELL, MR. MALONEY

### 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) (CJ 110) Legal, behavioral, historical, and contemporary aspects of the American political system.

#### Upper Division Courses

- PO 211 **GOVERNING CINCINNATI** (3).
- PO 221 **COMPARATIVE GOVERNMENT** (3) The politics of Great Britain, France, and Italy. 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 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 244 **POLITICS OF WAR AND PEACE** (3) How the American political system deals with the questions of war and peace.
- PO 249 **INTERNATIONAL ORGANIZATIONS** (3) The United Nations, modern society of sovereign nations, international law, diplomacy, arbitration and judicial settlement.
- PO 267 **NAZI GERMANY** (3) The rise and fall of Adolf Hitler, the Weimar Republic, origins of the NSDAP, the seizure of power, 1933, the "co-ordination" of Germany, the SS and Himmler, foreign policy, the persecution and murder of the Jews.
- PO 268 **MODERN GERMANY** (3) Germany since 1945, the division of Germany, the economic recovery, political parties, interest groups, and parliament, the election system, executive branch, and federalism. The courts and legal system, 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 310 **CONSERVATISM AND LIBERALISM** (3) Conservatism and liberalism as presented in the writings of prominent modern Americans.
- PO 332 **INTRODUCTION TO PUBLIC ADMINISTRATION** (3) Local and state. Primary emphasis is on national problems and the federal civil service.
- 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 designer 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 347 **CONSTITUTIONAL LAW** (3) Detailed reading of American constitutional law cases; emphasis on civil liberties and civil rights and the role of the Supreme Court in American politics.
- PO 350 **AMERICAN POLITICAL THOUGHT** (3) Detailed reading of the writings of American statesmen from the Founding to modern times with a view to understanding the United States as a regime.
- PO 352 **PRINCIPLES OF RESEARCH** (3) (SO 352).
- PO 353 **APPLIED RESEARCH METHODOLOGY** (3) (SO 353).
- PO 358 **URBAN AMERICA** (3).
- PO 362 **CAMPAIGNS, ELECTIONS AND PARTIES** (3).
- 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.
- 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 **HUMAN SPECIES** (3) Cross cultural study of human values, norms and behavior. Contemporary American as well as remote and prehistoric cultures will be investigated from the anthropological perspective.

## Upper Division Courses

- SO 211 GOVERNING CINCINNATI (3).
- 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 AMERICA (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 262 WOMEN IN AMERICAN SOCIETY (3) Women in social, economic and structural (bureaucratic) settings. An examination of changing roles and status.
- SO 263 SOCIAL CHANGE (3) (SW 263) Studying alterations in cultural patterns, social structure, and social behavior.
- SO 265 CLASS AND CLASS CONFLICT (3) (CJ 265) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.
- 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.
- SO 285 MAGIC AND WITCHCRAFT (3) Mysticism and the supernatural in social context. The meanings and functions of magic and witchcraft within various cultural contexts.
- SO 290 CRIMINOLOGY AND PENOLOGY (3) (CJ 290) Causative theories of crime. Crimes and criminals in the context of behavioral systems. Policies and programs of legal treatment.
- SO 292 JUVENILE DELINQUENCY (3) (CJ 292) Multiple factors involved in delinquent behavior. Definition, extent, causation, and treatment.
- SO 300 SOCIOLOGICAL THEORIES (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.
- SO 309 ORGANIZATIONAL THEORY AND DESIGN (3) See MG 309 Prerequisite: SO 316 or MG 305.
- SO 310 MARRIAGE AND THE FAMILY (3) (PS 310, TH 310) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting.
- SO 316 COMPLEX ORGANIZATIONS (3) (MG 316) 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.
- SO 345 APPALACHIAN IN URBAN LIFE (3) (ED 245) Subcultural contact with the urban community. Social and economic adjustment problems of this group.
- SO 352 PRINCIPLES OF RESEARCH (3) (PO 352).
- SO 353 APPLIED RESEARCH METHODOLOGY (3).
- SO 395 DIRECTED STUDY Credit to be arranged.
- SO 396 INTERNSHIP: APPLIED SOCIOLOGY (3).
- SO 397 INTERNSHIP: SOCIAL SERVICE (3) (HS 397, PO 397).

## THE DEPARTMENT OF PSYCHOLOGY

The Department of Psychology offers the Associate of Science, the Bachelor of Science and the Master of Arts in Psychology. For information on the Associate degree, contact the Center for Adult and Part-time Students.

### THE BACHELOR OF SCIENCE IN 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. Complete PS 101 or 102 as an introduction to upper division work. Majors planning to pursue graduate training in psychology are encouraged to take PS 102.
2. Thirty-one credit hours in upper division courses including PS 201, 210, 221, 222, 231, 261, 277, and 299.
  - a. Students planning graduate study are encouraged to take courses such as PS 251, 279 and 426.
  - b. Other students are encouraged to elect psychology courses as best fitting their individual career goals (e.g., PS 251, if entering business).
3. Complete BL 106, 107, 108, and 109 to fulfill the science requirement; substitution of other science courses must be approved by the department chair.
4. Maintain contact with departmental faculty advisor each semester to aid in course scheduling, etc.

### THE MASTER OF ARTS IN PSYCHOLOGY

The degree of Master of Arts in Psychology is designed to prepare students for continuing their graduate studies to the doctoral level and/or to prepare students for employment in the areas of business and social organizations and agencies.

#### Program of studies

1. To insure comprehensiveness in the program, all candidates must include each of the following courses, designed, in their whole, to provide integrated coverage of the graduate field of psychology. These courses are:
  - PS 464 THEORIES OF PERSONALITY (3)
  - PS 501 CONTEMPORARY THEORY IN PSYCHOLOGY (3)
  - 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 the particular objective in graduate study in psychology, the student must include a concentration in one of the following areas which must be approved by the program director or his designate. Each area of concentration requires a 3 credit hour practicum.

**General-Experimental Psychology**

A minimum of 16 credit hours selected from the following courses: Individual Tests of Intelligence; Learning and Motivation; Physiological Psychology; Clinical and Research Issues; The Severely Mentally Disabled Patients; Research in Psychology; Early Cognitive Development. Other courses by permission of the program director.

**Clinical Psychology**

A minimum of 19 credit hours selected from the following courses: Psychopathology; Individual Tests of Intelligence, Personality Assessment I and II; Behavior Therapy; Counseling and Psychotherapy; Clinical and Research Issues; The Severely Mentally Disabled Patients. Other courses by permission of the program director.

**Counseling Psychology**

A minimum of 19 credit hours selected from the following courses: Psychopathology; Individual Tests of Intelligence; Personality Assessment II; Behavior Therapy; Clinical and Research Issues; The Severely Mentally Disabled Patients; Counseling and Psychotherapy. Other courses by permission of the program director.

**Industrial/Organizational Psychology**

A minimum of 16 credit hours selected from the following courses: Individual Tests of Intelligence; Psychology of Job Stress; Personnel Selection and Development; Motivation and Behavior in Organizations; Seminar in Industrial Psychology. Other courses by permission of the program director.

3. 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 (PS 520) and, in final oral examination, have both successfully defended their thesis and successfully demonstrated their knowledge of the general field of psychology.

**Admission**

To be eligible for admission a student must have:

1. A 2.80 overall undergraduate grade point average and a 3.00 average in all psychology courses. This average is computed by assigning quality points of 4 for each credit hour of A.
2. Satisfactory performance on the MAT (Miller Analogies Test). Score required prior to acceptance.
3. A minimum of 18 undergraduate credit hours in psychology which must include general psychology, introductory statistics, experimental psychology with laboratory, and psychological and achievement testing. Courses in developmental and abnormal psychology are helpful. Courses in biological science and college mathematics are recommended as a preparation for graduate studies. In addition, a course in Industrial/Organizational Psychology and/or other prerequisites in business courses are necessary for I/O students.
4. 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:

1. 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.
2. Submit official transcript of previous college work.
3. Submit report of MAT score to the Graduate Programs Office or arrange with the Department of Psychology for examination.
4. 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.

## Psychology (PS)

*Staff:* DR. NELSON, *chair*, DR. BARRY, DR. BERG, DR. COSGROVE, DR. CROWN, DR. DACEY, DR. EBERLEIN, DR. HART, DR. HELLKAMP, DR. KAPP, DR. KRONENBERGER, DR. QUATMAN, DR. SCHMIDT

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### 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. For Psychology majors only or permission of chair.
- PS 121 **GENERAL EXPERIMENTAL PSYCHOLOGY I** (2) Principles of behavioral science: sensory functions, perception, learning, emotion, motivation. Fulfills science requirement for non-psychology majors. Corequisite: PS 122.
- PS 122 **GENERAL EXPERIMENTAL PSYCHOLOGY I LABORATORY** (1) (Three laboratory hours per week.) Laboratory experiments demonstrating principles described in the lectures (PS 121). Corequisite: 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. Corequisite: PS 124. Prerequisite: PS 121/122.
- PS 124 **GENERAL EXPERIMENTAL PSYCHOLOGY II LABORATORY** (1) (Three laboratory hours per week.) Experiments demonstrating principles described in the lectures (PS 123). Corequisite: PS 123.
- PS 141 **HUMAN GROWTH AND DEVELOPMENT I** (3) (ED 141).
- PS 142 **HUMAN GROWTH AND DEVELOPMENT II** (3) (ED 142).

### Upper Division Courses

- PS 201 **HISTORY AND SYSTEMS OF PSYCHOLOGY** (3) Modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required.
- PS 210 **STATISTICAL TECHNIQUES** (3) (ED 510) Basic statistics in psychology and education. Measures of central tendency and variability, correlational techniques, and experimental test of differences among groups.



- 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) (SW 216) Psychological, physiological, and social approach to development and experience from adolescence to death. (Interdisciplinarily taught).
- PS 221 **EXPERIMENTAL PSYCHOLOGY I** (3) Aims and techniques of experimental psychology. Physiological bases of behavior, senses, perception. Prerequisites: PS 101 or 102, 210.
- PS 222 **EXPERIMENTAL PSYCHOLOGY II** (3) Learning, emotion, motivation, social behavior. Animal and human subjects. Planning, instrumentation, controls. Prerequisite: PS 221.
- PS 231 **DEVELOPMENTAL PSYCHOLOGY** (3) (ED 231) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration.
- PS 232 **CHILD PSYCHOLOGY** (2-3) (ED 232) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty.
- PS 233 **ADOLESCENT PSYCHOLOGY** (2-3) (ED 233) Interrelated physical, social, and moral development associated with youth and adolescence.
- PS 251 **INDUSTRIAL PSYCHOLOGY** (3) (IR 330, MG 321) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American industry.
- PS 261 **SOCIAL PSYCHOLOGY** (3) (ED 261, SW 261) The individual's personality, attitudes, and behavior in multi-individual situations.
- PS 266 **CRIME AND PERSONALITY** (3) (CJ 266, CJ 566, ED 266) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches.
- PS 271 **INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD** (2) (ED 271).
- PS 274 **PSYCHOLOGY OF ADJUSTMENT** (2) (ED 274) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations.
- PS 276 **PSYCHOLOGY OF DELINQUENCY** (2) (CJ 276, CJ 576, ED 276) Types and causes of juvenile delinquency together with brief case histories.
- PS 277 **ABNORMAL PSYCHOLOGY** (3) (ED 277) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities.
- PS 279 **PSYCHOLOGICAL AND ACHIEVEMENT TESTS** (2-3) (ED 579) 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.
- 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) (TH 285) The discipline which examines religiousness and the religious personality from a psychological perspective.
- 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** (3) 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) (SO 310, TH 310) 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.

- 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** (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) (SW 409) 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.
- 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. Prerequisite: PS 221, 222.
- PS 431 **CLINICAL & RESEARCH ISSUES: THE SEVERELY MENTALLY DISABLED POPULATION** (3) (ED 431, SO 431) A survey of the chronic patients with severe emotional problems, etiology, diagnosis, and treatment issues.
- PS 464 **THEORIES OF PERSONALITY** (3) (ED 464) Description and evaluation of current personality theories.
- 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: PS 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) (ED 503) The course is aimed at extending each student's knowledge of recent developments in psychology as applicable to the field of education.
- PS 505 **PROFESSIONAL PROBLEMS IN PSYCHOLOGY** (3) Basic issues in professional psychology including principles of ethics and their applications.
- PS 511 **ADVANCED STATISTICS** (3) (ED 511) Elementary correlational methods, serial correlation, multiple regression, non-parametric statistics, analysis of variance, and multivariate analyses. Prerequisite: PS 210.
- PS 520 **COMPUTER STATISTICS LANGUAGE** (2).
- PS 521 **ADVANCED EXPERIMENTAL PSYCHOLOGY** (3) Intensive survey of experimental procedures and advanced issues in experimental design and analysis; introduction to individual laboratory research with special focus on methodological issues in clinical research. Prerequisite: PS 511.
- PS 529 **BEHAVIOR THERAPY** (3) (ED 529) Theoretical and empirical bases of behavior therapy. Projects using behavioral therapeutic techniques in a variety of settings with various clinical problems.
- PS 530 **LEARNING AND MOTIVATION** (3) (ED 503) Theories of learning. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention, and forgetting.
- PS 532 **PRINCIPLES OF GUIDANCE** (2) (ED 532) A basic introduction to the area guidance and counseling services in the schools.
- PS 533 **COUNSELING PRINCIPLES AND TECHNIQUES** (2-3) (ED 533) 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.

- PS 536 **GROUP GUIDANCE** (2) (ED 536).
- PS 553 **MARKETING RESEARCH** (3) (MK 662).
- PS 580 **PSYCHOPATHOLOGY** (3) (ED 580).
- PS 582 **INDIVIDUAL TESTS OF INTELLIGENCE** (3-4) This course is designed to teach clinical assessment skills in intelligence testing. Permission of department chair is necessary.
- PS 584 **PERSONALITY ASSESSMENT TECHNIQUES I** (3) Administration, scoring, and interpretation of the Rorschach and TAT. Permission of department chair is necessary.
- 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. Permission of department chair is necessary.
- PS 589 **COUNSELING AND PSYCHOTHERAPY** (3) Permission of department chair is necessary.
- 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 595 **SUPERVISED CLINICAL/COUNSELING EXPERIENCE** (3).
- PS 597 **INTERVENTION SKILLS FOR SEVERELY MENTALLY DISABLED** (3).
- PS 600-629 **WORKSHOPS AND INSTITUTES** Titles and credit hours will be announced in each individual case.
- PS 615 **GESTALT THERAPY** (1) Introduction to theoretical foundations and therapeutic techniques.
- PS 643 **SEMINAR: INDUSTRIAL PSYCHOLOGY** (3).
- PS 644 **MOTIVATION AND BEHAVIOR IN ORGANIZATIONS** (3) (ED 664, MG 644)  
To help students gain knowledge of various concepts and controversies relating to attempts to explain the motivation and behavior of people in organizations.
- PS 646 **PSYCHOLOGY OF THE EXCEPTIONAL CHILD** (3) (ED 646).
- PS 647 **CLINICAL STUDY OF THE EMOTIONALLY DISTURBED CHILD** (2) (ED 647)  
Introduces students to practical diagnostic and treatment procedures in their contact with the emotionally disturbed child.
- 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** (3-6).
- PS 716 **CHILDHOOD PSYCHOPATHOLOGY** (1) Identification, assessment and treatment procedures.
- PS 747 **MARITAL AND FAMILY THERAPY** (2).

## THE DEPARTMENT OF SOCIAL WORK

The Department of Social Work offers the Bachelor of Science in Social Work.

### THE BACHELOR OF SCIENCE IN 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.

Students majoring in social work must complete the following courses:

1. Social Work 104, 167, 216, 311, 315-316, 318, 325, 415-416, 417-418, 419-420, 424;
2. Psychology 101, 232;
3. Sociology 101;
4. Biology 122, 126, 131, 132;
5. Mathematics 146;
6. a minimum of twelve semester hours in related divisional work as specified in Support Core Area I and II.

*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 Lifestyles/changing society  
 SW 263 Social Change  
 SW 270 Families in Poverty  
 SW 307 Child Welfare  
 SW 320 Death & Dying  
 SW 330 Community Organizing  
 SW 402 Child Abuse  
 SW 432 Res. & Clinical Issues:  
     SMD Population

*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

## Social Work (SW)

*Staff:* DR. JENKINS, *chair*; MS. JACKSON, DR. LONG

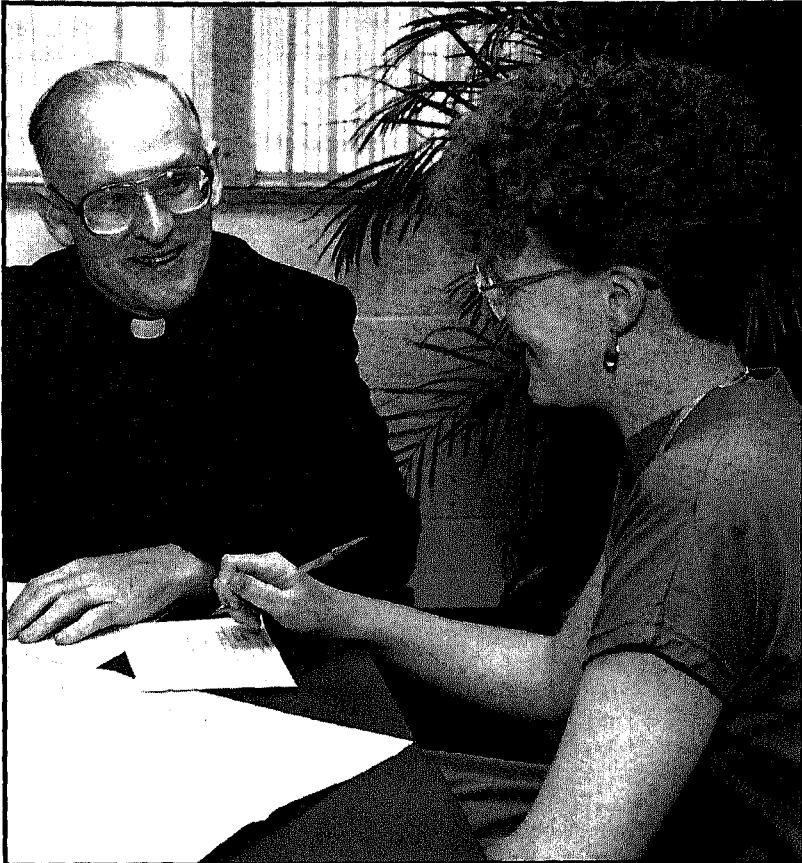
### Lower Division Courses

- SW 101 **INTRODUCTION TO CRIMINAL JUSTICE** (3) (CJ 101).  
 SW 104 **CONTEMPORARY SOCIAL PROBLEMS** (3) A systematic study of major social problems in modern society.  
 SW 167 **INTRODUCTION TO SOCIAL WORK** (3) (CJ 167) Social work and the three major purposes: (1) enhancement of problem solving; (2) knowledge of systems that provide people with resources and services; and (3) the successful linkage of people with these systems.

### Upper Division Courses

- SW 210 **FAMILY AND SOCIETY** (2-3) (ED 310) Marriage preparation, partner selection, marital adjustment, family structure and functions, and marital dissolution. Current problems facing the family, macro-intervention strategies for problem resolution.  
 SW 213 **LIFESTYLES IN A CHANGING SOCIETY** (2) 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) (PS 216) Psychological, physiological, and social approaches to development and experience from adolescence to death. Interdisciplinary. Prerequisites: PS 101, 232, and SO 101.  
 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 263 **SOCIAL CHANGE** (3) (SO 263) Studying alterations in cultural patterns, social structure, and social behavior.  
 SW 265 **OVERVIEW OF CONTEMPORARY CORRECTIONS** (3) (CJ 268)  
 SW 270 **FAMILIES IN POVERTY** (3) Analyzes the causes and consequences of poverty for families in America. Antipoverty policy responses are also considered.  
 SW 307 **CHILD WELFARE** (3) (CJ 307) Knowledge of child welfare services. Historical development of services to children, types of needs children have, types of organized services they receive, and personnel available to give services to children.  
 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) (CJ 316) Existing social welfare policy in light of current social issues, developing trends in social welfare policy and their impact on existing human needs.  
 SW 318 **TRENDS IN MODERN SOCIETY: RACE RELATIONS** (3) (CJ 318) Causes, effects, and forms of racial prejudice and stereotyping, social conditions and attitudes, individual and structural consequences.  
 SW 320 **DEATH AND DYING** (3) Knowledge and understanding of the aspects of dying and death in the U.S.  
 SW 325 **WOMEN/MEN: MYTH AND REALITY** (3) Changing roles of men and women in American culture, 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 society are explored.  
 SW 330 **COMMUNITY ORGANIZING** (3) (PO 330) A study of the theories, principles, and techniques of community organization with an emphasis on practical research.  
 SW 395 **DIRECTED STUDY** Credit to be arranged.

- SW 402 **CHILD ABUSE** (2) Designed to acquaint the student with the various forms of child abuse and neglect. Family dynamics and characteristics of offenders and victims will be studied.
- SW 409 **GROUP DYNAMICS** (3) (PS 409).
- SW 415 **THEORY AND METHODS OF SOCIAL WORK PRACTICE I** (3) Theories and bodies of knowledge as a basis for social work intervention. Values and skills associated with the practice of social work. Prerequisites: SW 315, 316.
- SW 416 **THEORY AND METHODS OF SOCIAL WORK PRACTICE II** (3) Knowledge and application of the fundamentals of social work practice, the problem-solving process, effective use of self as an agent of change. Prerequisite: SW 415.
- SW 417-**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. Corequisites: SW 419, 420.
- SW 419-**SOCIAL WORK SEMINAR** (2,2) This course is designed to provide the student with 420 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.
- SW 432 **RESEARCH AND CLINICAL ISSUES: SMD POPULATION** (3) (PS 431).



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U.S. Federal Magistrate, Southern District of Ohio, Cincinnati, Ohio

**MR. PAUL G. SITTENFELD**

Vice President & Portfolio Manager, Gradison Financial Services, Cincinnati, Ohio

**DR. NORMA K. STONE**

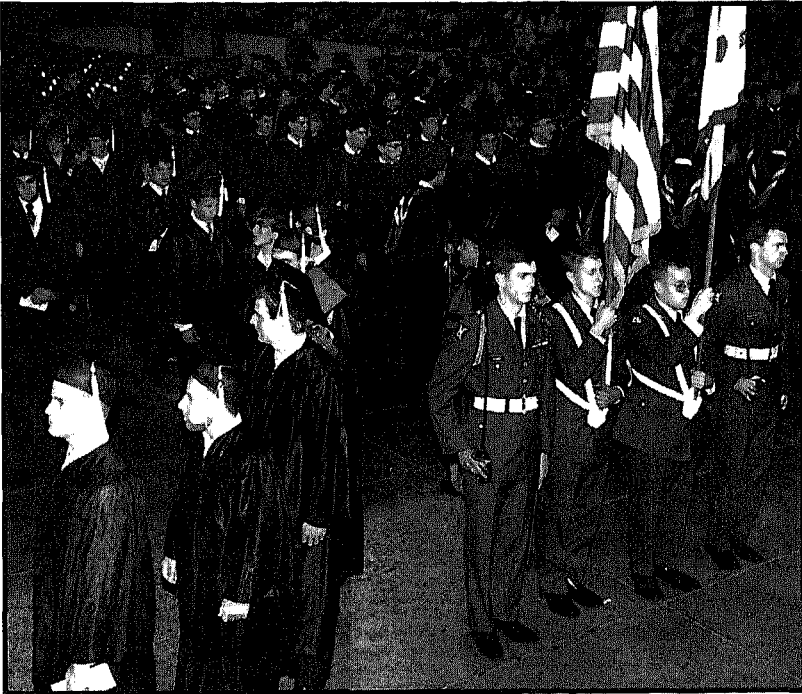
Educator, Civic Leader, Dallas, Texas

**DR. JOHN M. TEW**

Mayfield Neurological Institute, Professor & Chairman, Department of Neurosurgery, University of Cincinnati Medical Center, Cincinnati, Ohio

**MR. JOSEPH P. VIVIANO**

President, Hershey Chocolate USA, Hershey, Pennsylvania





## University Personnel

### Officers of Administration

**MICHAEL J. CONATON**

*Interim President*

**JOAN CONNELL**

*Vice President for Academic Affairs*

**J. RICHARD HIRTÉ**

*Vice President for Financial Administration*

**ARTHUR J. SHRIBERG**

*Vice President for Student Development*

**W. MICHAEL CHERTOK**

*Vice President for University Relations*

**JOHN F. KUCIA**

*Vice President and Assistant to the President*

**VINCENT H. BECKMAN**

*University Counsel*

### Executive Division

**MICHAEL J. CONATON**

BA (Xavier University)

*Interim President*

**PETER J. GILLEN (1985)**

AB (Fairfield University)

*Special Assistant to the President*

**JOHN F. KUCIA (1984)**

AB, MEd (Xavier University)

*Vice President and Assistant to the President*

**MERELYN BATES-MIMS (1987)**

BA, MEd, PhD (University of Cincinnati)

*Director of Affirmative Action*

**JEFFREY H. FOGELSON (1983)**

BA, MEd (Michigan State University)

*Athletic Director*

### Academic Affairs Division

**JOAN CONNELL (1987)**

BA, MEd, MA, MA, PhD (University of Chicago)

*Vice President for Academic Affairs*

**DAVID C. FLASPOHLER (1962)**

BS, MS, PhD (Rutgers University)

*Director of Institutional Research, Records, and Registration*

**NEIL R. HEIGHBERGER (1968)**

BS, PhD (University of Cincinnati)

*Dean, College of Social Sciences*

**DANIEL W. GEEDING (1969)**

BS, MBA, PhD (University of Cincinnati)

*Dean, College of Business Administration*

**LAURIE E. VAN ARK (1988)**

BA (Hope College)

*Assistant to the Vice President for Academic Affairs*

**STANLEY E. HEDEEN (1968)**

BA, PhD (University of Minnesota)

*Dean, College of Arts & Sciences*

**PAULA WARNKEN (1980)**

BA, MEd, MLS (Kent State University)

*Director of University Libraries*

**JAN E. JANTZEN (1987)**

BS, MA (University of Southern California)

*Dean of Enrollment Services*

**SUSAN G. WIDEMAN (1979)**

BS, MBA (Xavier University)

*Director, Center for Adult and Part-time Students*

**Financial Administration Division**

**J. RICHARD HIRTÉ (1983)**

BSBA, MBA, CPA, PhD (University of Florida)

*Vice President for Financial Administration*

**THOMAS W. BARLOW (1983)**  
BFA, MFA (Southern Illinois University)  
*Director of Graphics & Publications*

**JAMES J. LANDERS (1980)**  
BS (University of Cincinnati)  
*Director of Physical Plant*

**THOMAS J. CUNNINGHAM (1984)**  
CPA, BS, MBA (Xavier University)  
*Associate Vice President for Financial Administration*

**Vacant**  
*Director of Personnel Services*

**DORINDA GILES (1990)**  
BS (Northern Kentucky University)  
*Director of University Computer Center*

**JOHN W. WINTZ (1960)**  
BSBA, MBA (Xavier University)  
*Manager of University Bookstore*

**Student Development Division**

**ARTHUR J. SHRIBERG (1983)**

BS, MEd, EdD (Columbia University)

*Vice President for Student Development*

**SYLVIA A. BESSEGATO (1985)**  
BS, MS (Indiana State University)  
*Associate Vice President for Student Development*

**LON S. KRINER (1978)**  
BS, MA, PhD (University of Toledo)  
*Assistant Vice President for Counseling and Health Services*

**KAY E. BINKLEY (1989)**  
BA (Vanderbilt University)  
*Director of International Student Services*

**BENJAMIN J. URMSTON, S.J. (1971)**  
AB, MA, STL, MRE (Loyola University Chicago)  
*Director of Programs in Peace and Justice*

**DAVID D. COLEMAN (1985)**  
BS, MA (Bowling Green State University)  
*Director of Student Activities/ University Center*

**SALLY E. WATSON (1984)**  
BS, MS (Southern Illinois University)  
*Assistant to the Vice President for Student Development*

**DEBORA A. JONES (1986)**  
BA, MA (Central Michigan University)  
*Director of Minority Affairs*

**ELAINE WELLINGER, HM (1985)**  
BS, MS (University of Notre Dame)  
*Director of University Ministry*

**University Relations Division**

**W. MICHAEL CHERTOK (1989)**

AB, MDiv (Southeastern Baptist Theological Seminary)

*Vice President for University Relations*

**J. KENNETH BLACKWELL (1971)**  
BS, MEd (Xavier University)  
*Associate Vice President, Community Relations (On leave of absence)*

**STEPHEN R. KUHN (1983)**  
BS (Central Michigan University)  
*Director of Development and Capital Campaign*

**VICKIE P. JONES (1984)**  
BA, MA (Central Michigan University)  
*Director, Public Relations*

**PAUL L. LINDSAY, JR. (1970)**  
AB (Xavier University)  
*Associate Vice President, University Relations*

**JAMES C. KING (1976)**  
BA, MA, PhD (University of Michigan)  
*Director of Radio and General Manager, WVXU*

**TIMOTHY J. RANAGHAN (1986)**  
BS (Xavier University)  
*Director, Alumni Relations*

The date mentioned in parenthesis is the date of first appointment.

## Administrative/Professional Staff

**LEAH M. ABOUSHI (1984)**  
BA, MLS, MEd, EdD (University of Cincinnati)  
*Coordinator, English Language and American Culture Program*

**ANTHONY AQUINO (1984)**  
*Associate Editor, Public Relations*

**MARVIN R. ASBROCK (1985)**  
BBA (University of Cincinnati)  
*Accountant*

**LAWRENCE D. ASHCRAFT (1990)**  
*Special Project Manager, WVXU-FM*

**DAVID ATKINSON (1990)**  
BS, MBA (Xavier University)  
*Facilities Manager*

**DONNA L. BAKER (1990)**  
AA (Arundel Commercial College)  
*Programmer Analyst II*

**PATRICIA A. BANKS (1989)**  
BS, MEd (Xavier University)  
*Residence Hall Director*

**CHARLENE BARLOW (1982)**  
*Program Manager, CMPD*

**ANDREW J. BARRY (1988)**  
BBA (University of Cincinnati)  
*Assistant to the Business Manager, Intercollegiate Athletics*

**STEPHANIE BATES (1982)**  
BA, MA, MEd (University of Cincinnati)  
*Director of Career Planning and Placement*

**MARY MARGARET BENDEL (1989)**  
BES, MEd (Xavier University)  
*Associate Director, Xavier Centre*

**SUSAN BENSMAN (1978)**  
BS (Xavier University)  
*Program Manager, CMPD*

**RICHARD J. BERES (1988)**  
BEEd, MEd, PhD (University of Toledo)  
*Director/Manager of Academic Computing*

**ALBERT J. BISCHOFF, S.J. (1988)**  
PhB, MEd (Xavier University)  
*University Chaplain*

**LINDA A. BOEHMER (1972)**  
*Supervisor, Data Control*

**PAUL BRAVO (1990)**  
BS (Xavier University)  
*Admissions Counselor*

**TIMOTHY M. BROERING (1988)**  
BS (Xavier University)  
*Studio Manager, Xavier TV*

**ELIZABETH L. BRONSIL (1978)**  
BS, MEd (Xavier University)  
*Director of Montessori Teacher Education*

**ANN BROWN (1974)**  
ADN (Delmar College)  
*Nurse Supervisor*

**JOHN H. BRUGGEMAN (1989)**  
BS (Xavier University)  
*Programmer Analyst I*

**JOAN BUCKLEY (1988)**  
BA, MEd, MA (Chicago State University)  
*Director of Faculty Development*

**KAREN L. BURK (1982)**  
BA, MEd (Xavier University)  
*Director, Development Services*

**CHARLES J. CAREY (1972)**  
AB, MEd (Xavier University)  
*Director of Information Services*

**GENE CARMICHAEL, SJ (1979)**  
BS, MEd, MDiv (Loyola University)  
*Counselor, Health & Counseling Center*

**MIMI CHAMBERLIN (1987)**  
BS (Xavier University)  
*Associate Director, Programs in Peace & Justice*

**MICHELE CHAVEZ (1988)**  
BS, MS (University of Dayton)  
*Admissions Counselor*

**KELLEY K. CLARK (1988)**  
BS, MA (Ball State University)  
*Assistant Director of Admissions*

**STEPHEN M. COBB (1987)**  
BA, MA (Ohio State University)  
*Associate Athletic Director*

**W. ALLEN COLE, III (1989)**  
BA, (Hanover College)  
*Coordinator, Academic Systems Services*

**MARY COMEROTA (1990)**  
BS (Springfield College)  
*Assistant Director of Financial Aid*

**ROBERT COTTER (1980)**  
BA (Ohio State University)  
*Coordinator of Audio Visual Services*

**MICHAEL COUCH (1980)**  
AS (Xavier University)  
*Director of Safety and Security*

**JAY R. CRAWFORD (1986)**  
*Broadcast Engineer, WVXU-FM*

**WILLIAM L. CUSTER (1986)**  
BA, MDIV, MA (Trinity Evangelical Divinity School)  
*Programmer Analyst II*

## University Personnel

**CHRISTINE M. DACEY (1984)**  
BA, MA, PhD (University of Ottawa)  
*Director of Psychological Services Center*

**CRYSTAL DAHLMEIER (1981)**  
BS, MEd (Xavier University)  
*Head Teacher/Principal, Montessori School*

**MARK A. DENNISTON**  
BS (Miami University)  
*Residence Hall Director*

**CARL E. DICKHAUS (1986)**  
BSBA (University of Cincinnati)  
*Data Base Administrator*

**HELEN B. DOUGHERTY (1989)**  
BS (Xavier University)  
*Regional Representative*

**D. MARK EHLEN (1986)**  
BA, MA (Bowling Green State University)  
*Women's Basketball Coach*

**THOMAS P. EISER (1984)**  
BA (Xavier University)  
*Sports Information Director*

**MARJORIE E. ENGLISH, OSF**  
BA, MS (University of Dayton)  
*University Chaplain*

**RONALD D. ESPOSITO (1987)**  
BGS, MA (Ohio University)  
*Music Director, WVXU-FM*

**FRANKLIN D. ESTES, JR. (1988)**  
*Programmer Analyst*

**JAMES H. FISHER (1983)**  
BS, MBA (Xavier University)  
*Associate Director, Career Planning & Placement*

**ROSE ANN FLEMING (1982)**  
BA, MA, MEd, MBA, PhD, JD (Miami University)  
*Academic/Athletic Advisor*

**LAWRENCE J. FLYNN, SJ (1966)**  
AB, PhL, MA, STL, PhD (University of Florida)  
*Director of Public Information, WVXU*

**W. LEE FORBES (1986)**  
BA, MBA (Xavier University)  
*Programmer Analyst II*

**RICHARD A. FREDETTE (1987)**  
BFA (University of Cincinnati)  
*Technical Director, University Theatre*

**MICHAEL P. FREY (1987)**  
BS, MA (Ohio State University)  
*Director, Annual Fund*

**DINO J. GAUDIO (1987)**  
BA (Ohio University)  
*Assistant Basketball Coach*

**PETER GILLEN (1985)**  
AB (Fairfield University)  
*Head Coach, Men's Basketball*

**CELESTE GOODLOE (1984)**  
BS, MS (Miami University)  
*Associate Director of Admissions*

**GEORGE GORDON (1986)**  
BA, MEd (Xavier University)  
*Assistant Director of Career Planning & Placement*

**MICHAEL F. GRDINA (1988)**  
BSBA, CPA (Xavier University)  
*Accounting Analyst*

**MICHAEL C. HANSON (1986)**  
*Collection Manager*

**J. RICHARD HARRIS (1988)**  
BA, MBA (Miami University)  
*Coordinator of Academic Computing*

**JOHN P. HEIM, SJ (1975)**  
BA, MEd (Xavier University)  
*Director, Parent Relations  
Director, Piano & Guitar Series*

**CHARLES F. INGRAM (1987)**  
BA (Xavier University)  
*Network Producer, WVXU-FM*

**DONALD W. ISPHORDING (1966)**  
BSBA (Xavier University)  
*Bursar*

**DORIS JACKSON (1982)**  
BS, MA (Atlanta University)  
*Director of Academic Advising and Summer  
Academic Bridge Program*

**JEAN-ELLEN JANTZEN (1990)**  
BA, MA (University of Southern California)  
*Director, College Opportunity Program*

**M. JODY JENIKE (1989)**  
BS, MEd (Temple University)  
*Assistant Athletic Trainer/Equipment  
Manager*

**LINDA E. JOHNSON (1989)**  
BA (California State University)  
*Enrollment Officer, Military Science*

**JAYNE KATHMAN (1989)**  
BS, MEd (Xavier University)  
*Teacher, Montessori School*

**JAMES F. KELLY (1980)**  
AB, MEd, MBA (Xavier University)  
*Director of Financial Aid*

**THOMAS P. KENNEALY, SJ (1969)**  
MA, STL, PhL, MAT (Indiana University)  
*Associate Dean, College of Arts & Sciences  
and College of Social Sciences*

**WILLIAM F. KING, SJ (1973)**  
AB, MA, PhL, STL, STD, (Catholic University)  
*Assistant Director of Alumni Relations*

## University Personnel

**FRANCIS J. KEOGH (1986)**

*Director of Auctions & Media Relations,  
WVXU-FM*

**ELIZABETH W. KNUE (1988)**

*RN, BS, MA (Xavier University)  
Counselor, Health & Counseling Center*

**CATHERINE KUHLMAN (1988)**

*BFA (Eastern Michigan University)  
Managing Director of Xavier Players*

**LORI A. LAMBERT (1987)**

*BA, MA (Shippensburg University)  
Assistant Director of Residence Life*

**CONSTANCE C. LANGHORST (1988)**

*Underwriting Director, WVXU-FM*

**JOHN R. LEIENDECKER, JR. (1988)**

*AB, MEd (University of Pittsburgh)  
Director of Admissions*

**SUZANNE M. LEIKER (1986)**

*BSBA (Xavier University)  
Staff Accountant*

**JANE S. LINK (1989)**

*BS, MEd, EdD (University of Cincinnati)  
Recruiter/Academic Advisor*

**KRISTIN LITTEL (1990)**

*BA, MA (University of Maryland)  
Coordinator for Commuter Services*

**DONALD W. LOCKARD (1987)**

*Supply Technician, Military Science*

**ANASTASIOS C. MADONIS (1988)**

*BS (University of Cincinnati)  
Assistant Director O' Connor Center, Head  
Swimming Coach*

**MICHAEL A. MARTINI (1987)**

*BA (Xavier University)  
Producer/Program Host, WVXU-FM*

**LAURIE J. MASSA (1976)**

*BS, MEd (Xavier University)  
Assistant Director of Athletics*

**ANNE V. MASSARO (1989)**

*BA, MEd (University of Georgia)  
Director of Residence Life*

**DALE J. MATTHEY (1990)**

*Manager of Printing Services*

**RANDAL MCCRAVY (1986)**

*BA, MEd (Xavier University)  
Associate Director of Student Activities*

**JEANETTE F. MCCULLOUGH (1989)**

*BS (Louisiana College)  
Laboratory Assistant, Biology*

**LILLIAN G. MCELROY (1987)**

*MEd (Miami University)  
Academic Advisor*

**RICHARD C. MENKE (1989)**

*BS (University of Kentucky)  
Grounds & Structural Maintenance Super-  
visor*

**GREGORY MEYER (1986)**

*Mechanical Maintenance Supervisor*

**JAMES W. MILLER (1986)**

*BS, MBA (Xavier University)  
Associate Director of Student Activities/  
University Center*

**MARIANNE MILLER (1986)**

*BA, MEd (Xavier University)  
Assistant Director of Admissions*

**ROBERT W. MILLER (1988)**

*BS, MS (Boston University)  
Application Development Manager*

**PAULA J. MOORE (1989)**

*BA, MEd (Harvard University)  
Director of Foundation & Corporation Rela-  
tions*

**MICHAEL T. MOSES (1988)**

*BS (St. John's University)  
Assistant Basketball Coach*

**THOMAS NASTOLD (1986)**

*Operations Manager, Computer Center*

**STEPHEN R. NICHOLS (1989)**

*BSBA (Xavier University)  
Chemistry Stockroom Manager*

**E. TERRY NIEMAN (1979)**

*BA, MEd (Xavier University)  
Director of Postal Services*

**GREGORY PARK (1988)**

*BA, MBA (Bowling Green State Univer-  
sity)  
Athletic Business Manager*

**CONTANCE L. PERME (1989)**

*BS, MBA (Xavier University)  
Coordinator for On-campus Employment*

**GEORGE E. PROSSER (1985)**

*BS, MEd (West Virginia University)  
Assistant Basketball Coach*

**CAROL C. QUILTY (1989)**

*BA, MS (Miami University)  
Career Counselor*

**J. DAVID RALSTON (1974)**

*AB, MA (Loyola University-Chicago)  
Enrollment Services Coordinator for Re-  
search & Information Systems*

**JAMES RAY (1987)**

*BS (Xavier University)  
Director of Intramural Sports and Recrea-  
tional Programs*

**SYED RAZIUDDIN (1988)**

*BS, MBA (Northern Kentucky University)  
Assistant Coordinator of Academic Comput-  
ing*

**KATHLEEN M. RIGA (1978)**  
BA, MBA (Xavier University)  
*Assistant Director of Personnel/Manager of Payroll*

**MARY RISCHMANN, RSM (1981)**  
BA, MEd (Xavier University)  
*Director, Secondary Education Program*

**MARGARET A. ROBINSON (1979)**  
*Programmer Analyst II*

**JOHN P. ROGERS (1984)**  
BA, MBA, PhD (Union Institute)  
*Director, Xavier Centre*

**LORNA J. ROMANO (1987)**  
BPh (Miami University)  
*News Director, WVXU-FM*

**JAMES L. ROSS (1988)**  
BS, MS (Long Island University)  
*Assistant to the Athletic Director, Head Trainer*

**ELSIE O. ROTH (1968)**  
*Administrative Assistant, Bursar's Office*

**GREGORY E. RUST (1984)**  
BS (Northern Kentucky University)  
*University Photographer*

**MARCIA L. RUWE (1973)**  
BS, MS, DBA (University of Kentucky)  
*Associate Dean, College of Business Administration*

**DAVID SACKSTEDER (1982)**  
BS (University of Cincinnati)  
*Associate Director of Physical Plant*

**ADRIAN SCHIESS (1985)**  
BS, MEd (Xavier University)  
*Director of Freshman Programs*

**ROBERT W. SCHMIDT, SJ (1964)**  
LitB, MA, PhL, STL, PhD (University of Toronto)  
*Assistant for Community Outreach*

**ELAINE M. SCHNEIDER (1989)**  
BA, MBA (Xavier University)  
*Director of Marketing CMPD*

**CHRISTINE SISSON (1986)**  
BA (College of Mt. St. Joseph)  
*Financial Aid Counselor*

**LARRY SMITH (1980)**  
*Supervisor of Custodians*

**JAMES A. SPRINGFIELD (1989)**  
BA (University of Cincinnati)  
*Assistant Director of Operations, WVXU-FM*

**THOMAS J. STADTMILLER (1960)**  
BSBA, MBA (Xavier University)  
*University Budget Director*

**ERICA STRAUSS (1984)**  
BA (Xavier University)  
*Writer, Public Relations*

**MICHAEL SUMMERS (1974)**  
*Night Supervisor of Custodial Services*

**JUDIE LIST SWEENEY (1987)**  
BA, MEd (University of Cincinnati)  
*Assistant Director of the Annual Fund, Alumni Giving*

**GARY P. TEMPLETON (1988)**  
BA (University of Dayton)  
*Producer/Engineer, Xavier TV*

**DENNIS A. TIERNEY (1986)**  
*Laboratory Technician, Physics*

**RICHARD J. TOBIN (1977)**  
BS, MA (Xavier University)  
*Development Services Assistant*

**NANCY TOM (1979)**  
BS, MBA (Xavier University)  
*Associate Dean, College of Business Administration and Director, MBA Program*

**MARIE A TOON (1987)**  
*Assistant Director of Financial Aid*

**JAMES TRACY (1985)**  
AA (Southern Ohio College)  
*Assistant Director of Physical Plant*

**GEORGE W. TRAUB, SJ**  
BLit, PhL, MA, STL, PhD (Cornell University)  
*Director of Ignatian Programs*

**ALBERT J. TUDOR, JR. (1988)**  
BFA (University of Cincinnati)  
*Graphics Manager*

**VICKY A. VAN WINKLE (1988)**  
BS, MS (Indiana University)  
*Associate Director for Records*

**JOHN D. VENNEMEYER (1979)**  
BS (University of Cincinnati)  
*Comptroller*

**KRISTA WARNER (1981)**  
*Associate Director for Registration*

**JACK E. WEAVER (1961)**  
*Manager of Engineering & Support Services*

**DANNY E. WEBB (1980)**  
*Systems Programmer*

**LISA M. WENDEL (1987)**  
BS (Xavier University)  
*Associate Director of Admissions*

**SERAFINA S. WILLIAMS (1987)**  
BA, MA, MBA (Xavier University)  
*Director of Admissions and Student Services for the MBA Program*

**PATRICIA S. WOESTE (1982)**  
AS (Xavier University)  
*Coordinator of Graduate Programs & Summer Sessions*

## University Personnel

**DORIS R. WOLF (1973)**  
BA, MEd (Xavier University)  
*Credential Analyst, Director of Veterans  
Educational Benefits, Consortium Liaison*

**CHARLES J. YANNESSA (1988)**  
BS, MA, MEd, EdD (University of Cincinnati)  
*Director of Purchasing*

**GEORGE H. ZAHN (1983)**  
BS (Xavier University)  
*Operations/Program Director, WVXU-FM*

## University Librarians

**PAULA WARNKEN (1980)**  
BA, MEd, MLS (Kent State University)  
*Director of University Libraries*

**MARK CAIN (1988)**  
AB, MA, MA (University of Chicago)  
*Circulation/Reader Services Librarian*

**SANDRA LINDBERG (1987)**  
BA, MLS (SUNY Buffalo)  
*Head of Technical Services*

**ELAINE M. CHENG (1989)**  
AB, MS (University of Illinois)  
*Interlibrary Loan Librarian*

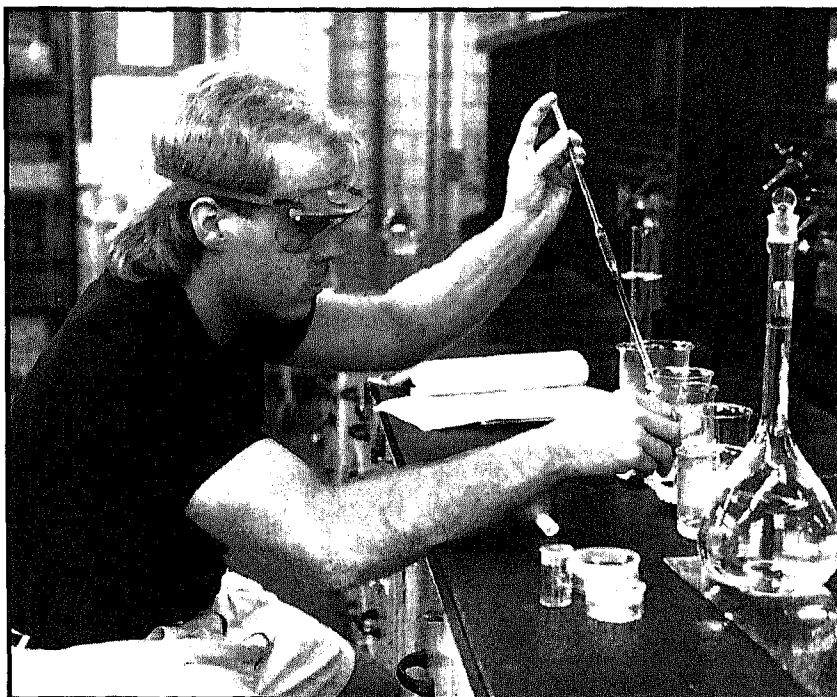
**TIMOTHY J. McCABE (1980)**  
BA, MPA, MLS (Kent State University)  
*Serials Librarian*

**GRACE G. EKINS (1988)**  
BA, MLS (University of Maryland)  
*Technical Services Librarian*

**MARTHA S. PERRY (1985)**  
BA, MLS (University of Kentucky)  
*Collection Development Librarian*

**ANDREA MILLICAN HIRTLE (1989)**  
BA, AM, MSLS (University of Illinois)  
*Head of Lodge Learning Lab*

**VICTORIA L. YOUNG (1985)**  
BA, MEd, MLS (University of Michigan)  
*Head of Reader Services*







## University Personnel

## University Faculty

**GILLIAN T. W. AHLGREN (1990)**  
BA, MA, PhD (University of Chicago)  
*Assistant Professor of Theology*

**BOB D. AHUJA (1987)**  
BS, MBA, DBA (Mississippi State University)  
*Assistant Professor of Marketing*

**KATHLEEN ALAIMO (1987)**  
BA, MA, PhD (University of Wisconsin - Madison)  
*Assistant Professor of History*

**JOYCE S. ALLEN (1979)**  
BBA, MBA (University of Cincinnati), CPA  
*Associate Professor of Accounting*  
*Chair of the Department of Accounting & Law*

**ALBERT F. ANDERSON, JR. (1963)**  
BS, MEd, EdD (Northern Colorado University)  
*Professor of Education*

**JERRY W. ANDERSON, JR. (1978)**  
BS, MBA, PhD (University of Cincinnati)  
*Professor of Management*

**JOHN ERIC ANDERSON (1985)**  
BA, JD, MA (University of Cincinnati)  
*Assistant Professor of Communication Arts*  
*Chair of the Department*

**EDWARD J. ARLINGHAUS (1966)**  
BBA, MBA, MEd, MS, PhD (University of Cincinnati)  
*Professor of Hospital and Health Administration, Chair of the Department*

**PHYLLIS AUGSPURGER (1990)**  
BSN, MSN (Indiana University)  
*Assistant Professor of Nursing*

**BARBARA J. BARKER (1977)**  
BS, PhD (University of Cincinnati)  
*Associate Professor of Chemistry*

**NORMAN J. BARRY (1972)**  
AB, PhD (University of Toledo)  
*Professor of Psychology*

**ANN BEIERSDORFER, RSM (1980)**  
BA, MA (University of Notre Dame)  
*Associate Professor of Art*

**NORMAN L. BERG (1969)**  
AB, MA, PhD (Queen's University)  
*Professor of Psychology*

**DAVID D. BERRY (1982)**  
BS, MS, PhD (University of Kentucky)  
*Assistant Professor of Mathematics and Computer Science*

**NANCY E. BERTAUX (1985)**  
BA, MA, PhD (University of Michigan)  
*Assistant Professor of Economics*

**MELANIE ANN BLACKWELL (1987)**  
BS, MS, Ph.D (University of Kentucky)  
*Assistant Professor of Information & Decision Sciences*

**ELENA BLAIR (1969)**  
BS, MSED, PhPra (University of Buenos Aires)  
*Assistant Professor of Philosophy*

**ALBERT A. BOCKLET (1974)**  
AB, MS, MEd, PhD (Arizona State University)  
*Associate Director and Associate Professor of Hospital and Health Administration*

**RICHARD H. BONVILLAIN (1971)**  
STB, PhD (University of Munich, Germany)  
*Associate Professor of Philosophy*

**JAMES BOOTHE (1987)**  
BS, MEd, EdD (Western Michigan University)  
*Assistant Professor of Education*

**JOSEPH A. BRACKEN, SJ (1982)**  
BA, MA, PhD (University of Freiburg, Germany)  
*Professor of Theology*  
*Beckman Chair of Theology*

**LEO H. BRADLEY (1990)**  
BA, MEd, EdD (University of Cincinnati)  
*Associate Professor of Education*

**LT. COL. ALBERT G. BRAUER II (1990)**  
BA, MA (University of North Carolina-Charlotte)  
*Professor of Military Science*  
*Chair of the Department*

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**VYTAUTAS J. BIELIAUSKAS, 1958-1988**  
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**THOMAS J. HAILSTONES, 1952-1987**  
*Professor of Economics*

**RAYMOND C. McCOY, 1945-1987**  
*Professor of Education*

**KARL P. WENTERSDORF, 1956-1987**  
*Professor of English*

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**TAYLOR BAKER, 1973-1988**  
*Assistant Professor of Education*

**WALTER BEHLER, 1949-1985**  
*Professor of Accounting*

**ALFRED BEIGEL, 1967-1976**  
*Professor of Modern Languages*

**EDWARD B. BRUEGGEMAN, SJ, 1962-1980**  
*Professor of Theology*

**EDWARD W. BURKE, SJ, 1964-1987**  
*Associate Professor of Classics*

**WALTER J. CLARKE, 1949-1987**  
*Professor of Psychology*

**EDWIN K. CLICKNER, 1968-1974**  
*Professor of Economics & Finance*

**JOHN N. FELTEN, SJ, 1957-1987**  
*Professor of Classics*

**LAWRENCE J. FLYNN, SJ, 1966-1985**  
*Professor of Communication Arts*

**DANIEL P. FOLEY, SJ, 1963-1987**  
*Professor of Psychology*

**JAMES H. FRY, 1975-1990**  
*Associate Professor of Education*

**RICHARD J. GARASCIA, 1942-1985**  
*Professor of Chemistry*

**EDWARD J. GOODMAN, 1950-1982**  
*Professor of History*

**SIDNEY W. HALE, 1962-1973**  
*Professor of Education*

**THOMAS H. HANNA, 1963-1987**  
*Professor of Education*

**PAUL W. HARKINS, 1946-1976**  
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**J. KANEY HAYES, 1958-1985**  
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*Professor of Economics*

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**ROBERT W. SCHMIDT, SJ, 1964-1980**  
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**HOWARD G. SCHULTZ, 1957-1987**  
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**ROMAN J. SCHWEIKERT, 1964-1987**  
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**JAMES M. SOMERVILLE, 1971-1982**  
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**JOHN F. TAFURI, 1951-1990**  
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**ANDREW S. VIRAGH, SJ, 1968-1973**  
*Professor of Philosophy*

**WESLEY P. VORDENBERG, 1966-1978**  
*Professor of Education*

**JAMES R. WEIR, 1969-1988**  
*Associate Professor of Sociology*

\* Dates represent years of service to Xavier

## Jesuit Educational Association American Colleges and Universities

**Georgetown University (1789)\***  
Washington, District of Columbia

**St. Louis University (1818)**  
St. Louis, Missouri

**Spring Hill College (1830)**  
Mobile, Alabama

**Xavier University (1831)**  
Cincinnati, Ohio

**Fordham University (1841)**  
The Bronx, New York

**College of the Holy Cross (1843)**  
Worcester, Massachusetts

**St. Joseph's University (1851)**  
Philadelphia, Pennsylvania

**Santa Clara University (1851)**  
Santa Clara, California

**Loyola College (1852)**  
Baltimore, Maryland

**University of San Francisco (1855)**  
San Francisco, California

**Boston College (1863)**  
Boston, Massachusetts

**Canisius College (1870)**  
Buffalo, New York

**Loyola University of Chicago (1870)**  
Chicago, Illinois

**St. Peter's College (1872)**  
Jersey City, New Jersey

**Regis College (1877)**  
Denver, Colorado

**University of Detroit (1877)**  
Detroit, Michigan

**Creighton University (1878)**  
Omaha, Nebraska

**Marquette University (1881)**  
Milwaukee, Wisconsin

**John Carroll University (1886)**  
Cleveland, Ohio

**Gonzaga University (1887)**  
Spokane, Washington

**University of Scranton (1888)**  
Scranton, Pennsylvania

**Seattle University (1891)**  
Seattle, Washington

**Rockhurst College (1910)**  
Kansas City, Missouri

**Loyola Marymount University (1911)**  
Los Angeles, California

**Loyola University (1912)**  
New Orleans, Louisiana

**Fairfield University (1942)**  
Fairfield, Connecticut

**Le Moyne College (1946)**  
Syracuse, New York

**Wheeling Jesuit College (1954)**  
Wheeling, West Virginia

\*Date of charter of member institutions is given in parentheses.

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